INSTALLATION RESTORATION PROGRAM (IRP) ADDENDUM SITE INVESTIGATION REPORT FOR IRP SITE NO.1

VOLUME II
APPENDICES A-E

101st AIR CONTROL SQUADRON AND
MASSACHUSETTS AIR NATIONAL GUARD
WORCESTER AIR NATIONAL GUARD STATION
WORCESTER, MASSACHUSETTS

FEBRUARY 1996

Prepared For
HQ ANG/CEVR
ANDREWS AFB, MARYLAND

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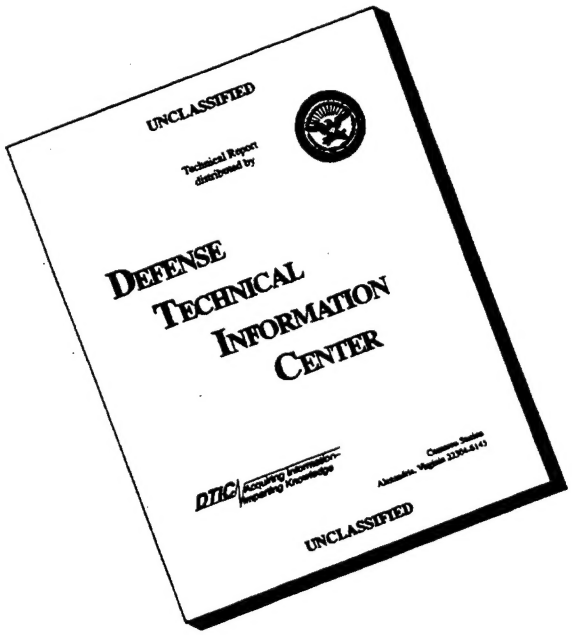

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Addendum Site Investigation Report for IRP Site No. 1, 101st Air Control Squadron, Massachusetts Air National Guard, Worcester Air National Guard Station, Worcester, Massachusetts - Volume II - Appendices A-E. This is the second volume of a two volume site investigation report. IRP Site No. 1 was investigated under the Installation Restoration Program. This was an addendum to the original Site Investigation due to the discovery of a possible source area. Soil samples were collected and analyzed. Low level contamination of fuel-related compounds and metals were detected. Further action was recommended under RCRA Subtitle I and the Massachusetts Contigency Plan.

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G	- Grant	**TA**	- Task
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INSTALLATION RESTORATION PROGRAM (IRP) ADDENDUM SITE INVESTIGATION REPORT FOR IRP SITE NO.1

VOLUME II
APPENDICES A-E

101st AIR CONTROL SQUADRON AND
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FEBRUARY 1996

Prepared For

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ANDREWS AFB, MARYLAND

Prepared By

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1315-199

APPENDIX A

BORING LOGS

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KEY TO BORING LOG SYMBOLS

UNIFIED SOIL CLASSIFICATION SYSTEM - ASTM D2487

MAJOR DIVISIONS			SYMBOL/ GRAPHIC	DESCRIPTIONS
COARSE-GRAINED SOILS (>50% Smaller Than #200 Sieve)	GRAVELS (More than 50% of coarse fraction is larger than the #4 sieve size.)	Clean gravels with little or no fines	GW	Well-Graded Gravels, Gravel - Sand Mixtures
			GP	Poorly Graded Gravels, Gravels - Sand Mixtures
		Gravels with over 12% fines	GM	Silty Gravels, Poorly Graded Gravel-Sand-Clay Mixtures
			GC	Clayey Gravels, Poorly Graded Gravel-Sand-Clay Mixtures
	SANDS (More than 50% of coarse fraction is smaller than the #4 sieve size.)	Clean sands with little or no fines	SW	Well-Graded Sands, Gravelly Sands
			SP	Poorly Graded Sands, Gravelly Sands
		Sands with over 12% fines	SM	Silty Sands, Poorly Graded Sand-Silt Mixtures
			SC	Clayey Sands, Poorly Graded Sand-Clay Mixtures
FINE-GRAINED SOILS (>50% Smaller Than #200 Sieve)	SILTS AND CLAYS (Liquid limit less than 50)		ML	Inorganic Silts and Very Fine Sands, Silty or Clayey Fine Sands
			CL	Inorganic Clays of Low to Medium Plasticity: Gravelly, Sandy or Silty Clays: Lean Clays
			OL	Organic Clays and Organic Silty Clays of Low Plasticity
	SILTS AND CLAYS (Liquid limit greater than 50)		MH	Inorganic Silts, Micaceous or Diatomacious Fine Sandy or Silty Soils, Elastic Silts
			CH	Inorganic Clays of High Plasticity Fat Clays
			OH	Organic Clays of Medium to High Plasticity, Organic Silts
HIGHLY ORGANIC SOILS			Pt	Peat and Other Highly Organic Soils

Sample retained for on-site screening.

Sample prepared for laboratory analysis.

Water Table Level.

PID Photo-Ionization Detector readings (ppm).

ND Parameter Not Detected

NA Measurement Not Applicable, Groundwater Not Detected

\- No Measurement Performed

NR No Sample Recovery

	Asphaltic Concrete
	Portland Cement Concrete
	Cement Grout
	Boulders or Bedrock

FIGURE B.1

FORMS\KEYLOG2

KEY TO BORING LOG SYMBOLS
Massachusetts Air National Guard
Worcester, Massachusetts

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION

JUNE 1995

Worcester Addendum Site Investigation

Worcester, Massachusetts

OPTECH

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 01-016BH

Project No.:	1315-199	Sampling Method:	California-Style Sampler
Logged By:	Earl E. Parker II	Depth Drilled:	10.0 ft. BLS
Drilling Co.:	Technical Drilling Services (TDS)	Depth To Water:	Not Encountered
Driller:	Peter Newsham	Date Measured:	NA
Date Drilled:	04/04/95	Surface Elevation:	764.5 ft. BLS
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	FIELD SCREENING ATHA (ppm)		
					Asphalt.				
	10 18 50	100			Brown to dark gray, very poorly sorted sand and coarse sand, little silt, loose, slightly moist (fill material).	3.0	13.0		
	- - -					-	-		
5	- - -					-	-		
	23 28 31	65			Brown to dark gray, medium to coarse sand, loose to slightly cohesive, silty sand, slightly moist, petroleum odor.	230	-		
	- - -					-	-		
10					Boring Terminated at 10.0 ft. BLS.				

Worcester Addendum Site Investigation

Worcester, Massachusetts

OPTECH

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LOG OF BORING 01-018BH

Project No.:	1315-199	Sampling Method:	California-Style Sampler
Logged By:	Earl E. Parker II	Depth Drilled:	6.0 ft. BLS
Drilling Co.:	Technical Drilling Services (TDS)	Depth To Water:	Not Encountered
Driller:	Peter Newsham	Date Measured:	NA
Date Drilled:	04/04/95	Surface Elevation:	767.5 ft. BLS
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	FIELD SCREENING ATHA (ppm)		
					Asphalt.				
	21 41 50	75			Brown to dark brown coarse sand, sand and gravel fill material, some silty sand, loose to slightly cohesive and slightly moist.	7.8	14.9		
	- - -					-	-		
5	11 50 -	80				13.5	13.7		
					Boring Terminated at 6.0 ft. BLS.				
10									

Worcester Addendum Site Investigation

Worcester, Massachusetts

OPTECH

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 01-017BH

Project No.:	1315-199	Sampling Method:	California-Style Sampler
Logged By:	Earl E. Parker II	Depth Drilled:	7.0 ft. BLS
Drilling Co.:	Technical Drilling Services (TDS)	Depth To Water:	Not Encountered
Driller:	Peter Newsham	Date Measured:	NA
Date Drilled:	04/04/95	Surface Elevation:	768.9 ft. BLS
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	FIELD SCREENING ATHA (ppm)		
					Asphalt.				
	19 30 44	90			Gray to brown fill material, coarse to medium sand, black charcoal fill in upper part, loose to slightly cohesive, slightly moist, gravelly.	6.2	14.7		
	- - -					-	-		
5	5 6 50	65			Brown to dark brown sand and silty sand, coarse sand and gravel and silt, slightly cohesive and moist.	6.8	14.7		
					Boring Terminated at 7.0 ft. BLS.				
10									

Worcester Addendum Site Investigation

Worcester, Massachusetts

OPTECH

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 01-019BH

Project No.:	1315-199	Sampling Method:	California-Style Sampler
Logged By:	Earl E. Parker II	Depth Drilled:	3.3 ft. BLS
Drilling Co.:	Technical Drilling Services (TDS)	Depth To Water:	Not Encountered
Driller:	Peter Newsham	Date Measured:	NA
Date Drilled:	04/05/95	Surface Elevation:	769.7 ft. BLS
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)		
					Asphalt.				
	23 38 31	70			Brown coarse sand fill material, some silty sand and gravel, loose to slightly cohesive, slightly moist.	4.5	10.0		
	20 21 50	60				4.5	-		
					Boring Terminated at 3.5 ft. BLS.				
5									
10									

Worcester Addendum Site Investigation

Worcester, Massachusetts

OPTECH

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 01-020BH

Project No.:	1315-199	Sampling Method:	California-Style Sampler
Logged By:	Earl E. Parker II	Depth Drilled:	3.0 ft. BLS
Drilling Co.:	Technical Drilling Services (TDS)	Depth To Water:	Not Encountered
Driller:	Peter Newsham	Date Measured:	NA
Date Drilled:	04/04/95	Surface Elevation:	769.3 ft. BLS
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)		
					Asphalt.				
	10 18 24	80			Brown to dark brown coarse sand and gravel fill material, loose to slightly cohesive, many angular cobbles and gravel, slightly moist.	5.8	11.3		
	- - -					-	-		
					Boring Terminated at 3.0 ft. BLS.				
5									
10									

Worcester Addendum Site Investigation

Worcester, Massachusetts

OPTECH

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 01-021BH

Project No.:	1315-199	Sampling Method:	California-Style Sampler
Logged By:	Earl E. Parker II	Depth Drilled:	1.0 ft. BLS
Drilling Co.:	Technical Drilling Services (TDS)	Depth To Water:	Not Encountered
Driller:	Peter Newsham	Date Measured:	NA
Date Drilled:	04/04/95	Surface Elevation:	769.1 ft. BLS
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)		
					Asphalt.				
	18 50 -	60			Brown to dark brown coarse sand and gravel fill material, cobbles and angular gravel fragments, loose, slightly moist.	7.3	11.9		
					Boring Terminated at 1.0 ft. BLS.				
5									
10									

Worcester Addendum Site Investigation

Worcester, Massachusetts

OPTECH

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 01-022BH

Project No.:	1315-199	Sampling Method:	California-Style Sampler
Logged By:	Earl E. Parker II	Depth Drilled:	2.5 ft. BLS
Drilling Co.:	Technical Drilling Services (TDS)	Depth To Water:	Not Encountered
Driller:	Peter Newsham	Date Measured:	NA
Date Drilled:	04/05/95	Surface Elevation:	770.2 ft. BLS
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)		
					Asphalt.				
	28 47 62	80			Brown coarse sand and gravel fill, silty sand near bottom, coarse sand is loose, slightly moist, silty sand is hard, slightly cohesive, and dry.	5.8	4.6		
	50 - -					-	-		
					Boring Terminated at 2.5 ft. BLS.				
5									
10									

Worcester Addendum Site Investigation

Worcester, Massachusetts

OPTECH

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 01-023BH

Project No.:	1315-199	Sampling Method:	California-Style Sampler
Logged By:	Earl E. Parker II	Depth Drilled:	1.5 ft. BLS
Drilling Co.:	Technical Drilling Services (TDS)	Depth To Water:	Not Encountered
Driller:	Peter Newsham	Date Measured:	NA
Date Drilled:	04/05/95	Surface Elevation:	769.9 ft. BLS
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)		
					Asphalt.				
	30 31 50	100			Brown to dark brown coarse sand and gravel fill material, loose, dry, little silt and silty sand at bottom.	2.0	6.1		
					Boring Terminated at 1.5 ft. BLS.				
5									
10									

Worcester Addendum Site Investigation

Worcester, Massachusetts

OPTECH

OPERATIONAL TECHNOLOGIES CORPORATION

LOG OF BORING 01-024BH

Project No.:	1315-199	Sampling Method:	California-Style Sampler
Logged By:	Earl E. Parker II	Depth Drilled:	2.0 ft. BLS
Drilling Co.:	Technical Drilling Services (TDS)	Depth To Water:	Not Encountered
Driller:	Peter Newsham	Date Measured:	NA
Date Drilled:	04/05/95	Surface Elevation:	775.7 ft. BLS
Drilling Method:	Hollow-Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING PID (ppm)	ATHA (ppm)		
					Asphalt.				
	6 5 50	90			Light brown sand and coarse sand, well sorted coarse sand with few gravel, bottom of sample was silty sand, slightly cohesive and moist.	2.4	1.9		
					Boring Terminated at 2.0 ft. BLS.				
5									
10									

APPENDIX B

FIELD GC SCREENING RESULTS

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Table B.1
Addendum SI Field GC Screening Results
Worcester Air National Guard Station, Worcester, Massachusetts

Drilling Locations/Intervals	Sample Weight (gr)	Field GC Data					Total BTEX (ppb)
		Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	m,p-Xylene (ppb)	o-Xylene (ppb)	
01-016BH							
0.5 – 2.0	10	1	4	4	8	3	20
7.5 - 9.0	10	O/R	O/R	O/R	O/R	O/R	N/A
01-017BH							
0.5 – 2.0	10	4	1	ND	ND	ND	5
5.5 - 7.0	10	5	1	5	4	ND	15
01-018BH							
0.5 – 2.0	10	ND	ND	ND	ND	ND	ND
5.0 – 6.0	10	6	1	ND	ND	ND	7
01-019BH							
0.5 – 2.0	10	3	3	2	10	9	27
2.0 – 3.5	10	4	1	1	3	ND	9
01-020BH							
0.5 – 2.0	10	ND	1	2	10	ND	13
01-021BH							
0.5 – 1.0	10	9	1	ND	ND	ND	10
01-022BH							
0.5 – 2.0	10	4	9	9	56	28	106
01-023BH							
0.5 – 1.5	10	9	2	3	9	6	29
01-024BH							
0.5 – 1.5	10	3	2	2	11	6	24

gr – grams.
ppb – parts per billion.
ND – Not Detected.
O/R - Analyte Peaks outside the calibration range of the GC. Peak concentrations not available.
N/A - Information is not available.

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FIELD GC DATA SUMMARY

SITE: Worcester ANGS
GAIN: 1,000
CARRIER GAS FLOW: 12 ml/min

INJECTION VOLUME: 100 µl
GC OVEN TEMP: 40°C
ANALYSIS TIME: 500 sec

Analysis No.	Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Concentrations (ppb)							
				Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene	Additional Analytes		
									total BTEX		
19	100 PPB			86	77	81	161	63	468		

Calibration Information		Analytes								
		Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene				
0.1 ppm	Retention Time									
	Response									
1 ppm	Retention Time									
	Response									
10 ppm	Retention Time									
	Response									

OPERATOR: J Byrd Jr

DATE: 4 April 95

FIELD GC DATA SUMMARY

SITE: Worcester ANGS
GAIN: 1,000
CARRIER GAS FLOW: 12 ml/min

INJECTION VOLUME: 100 µl
GC OVEN TEMP: 40°C
ANALYSIS TIME: 500 sec

Analysis No.	Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Concentrations (ppb) Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene	Additional Analytes TOTAL BTEX		
1	100 PPB			100	100	100	200	100	600		
2	1 PPM			1,000	1,000	1,000	2000	1,000	6,000		
3	10 PPM			10,000	10,000	10,000	20,000	10,000	60,000		
4	AIR BLANK			6	ND	7	12	7	32		
5	01-022 BH	0.5-2.0	10g	4	9	9	56	28	106		
6	01-023 BH	0.5-2.0	10g	9	2	3	9	6	29		
7	DUP 01-022 BH	0.5-2.0	10g	3	6	3	50	22	84		
8	01-019 BH	0.5-2.0	10g	3	3	2	10	9	27		
9	01-019 BH	2.5-4.0	10g	4	1	1	3	ND	9		
10	100 PPB			92	83	78	153	76	482		
	RECAL			100	100	100	200	100	600		
11	AIR BLANK			ND	1	4	11	9	25		
12	01-024 BH	0.5-2.0	10g	3	2	2	11	6	24		
13	100 PPB			93	100	98	201	101	593		

Calibration Information		Analytes Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene				
0.1 ppm	Retention Time	59.6	119.4	247.2	266.1	314.6				
	Response	213.7	184.1	137.2	108.8	41.1				
1 ppm	Retention Time	60.3	120.2	247.7	266.9	315.4				
	Response	3261	2665	2390	1388	925				
10 ppm	Retention Time	61.2	121.7	251.2	269.6	317.8				
	Response	21,631	21,529	20,947	16,359	5765				

OPERATOR: [illegible]

DATE: 5 April 95

FIELD GC DATA SUMMARY

SITE: Worcester AnGS
GAIN: 1,000
CARRIER GAS FLOW: 12 ml/min

INJECTION VOLUME: 100 µl
GC OVEN TEMP: 40 °C
ANALYSIS TIME: 500 sec

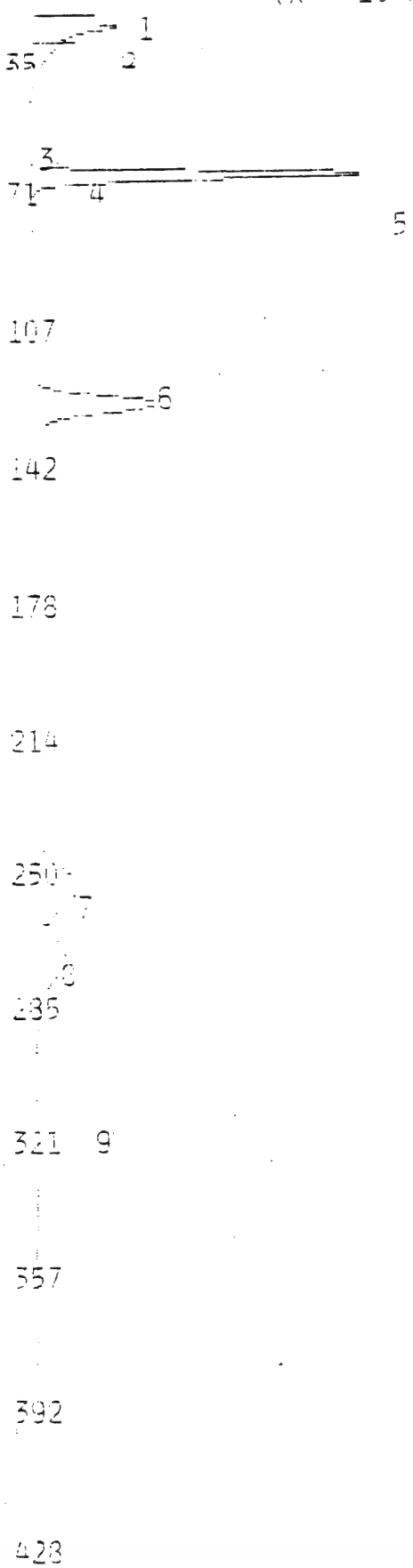
Analysis No.	Boring	Sample Interval (ft. BLS)	Sample Mass (grams)	Concentrations (ppb) Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene	Additional Analytes TOTAL BTEX		
1	100 PPB			100	100	100	200	100	600		
2	1 PPM			1,000	1,000	1,000	2,000	1,000	6,000		
3	10 PPM			10,000	10,000	10,000	20,000	10,000	60,000		
4	AIR BLANK			2	1	3	7	ND	13		
5	01-016 BH	0.5-2.0	10g	1	4	4	8	3	20		
6	01-016 BH	7.5-9.0	10g	Too many Peaks. GC OVER LOAD					"25"	Peaks	
7	Reshot 01-016 BH	7.5-9.0	10g	Again Too Many Peaks						Dilute 2X	
8	100 PPB			78	73	70	142	58	421		
	RECAL			100	100	100	200	100	600		
9	AIR BLANK			ND	ND	ND	5	ND	5		
10	01-017 BH	0.5-2.0	10g	4	1	ND	ND	ND	5		
11	01-017 BH	5.5-7.0	10g	5	1	5	4	ND	15		
12	01-018 BH	0.5-2.0	10g	ND	ND	ND	ND	ND	ND		
13	01-018 BH	5.0-6.0	10g	6	1	ND	ND	ND	7		
14	01-020 BH	0.5-2.0	10g	ND	1	2	10	ND	13		
15	100 PPB			94	93	84	167	72	510		
	RECAL			100	100	100	200	100	600		
16	AIR BLANK			ND	ND	ND	ND	ND	ND		
17	01-020 BH DUP	0.5-2.0	10g	ND	1	ND	25	ND	26		
18	01-021 BH	0.5-2.0	10g	9	1	ND	ND	ND	10		

Calibration Information		Analytes Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene				
0.1 ppm	Retention Time	59.5	118.8	245.8	264.5	313.3				
	Response	214.2	170.4	136.3	106	42.79				
1 ppm	Retention Time	60.4	120.2	247.4	266.4	314.6				
	Response	3232	2762	2512	1974	1005				
10 ppm	Retention Time	61.2	120.9	249.0	267.2	315.4				
	Response	18920	20,283	22,894	19,463	6871				

OPERATOR: [signature]

DATE: 4 April 95

ANALYSIS #1 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 09:47
SAMPLE TIME: APR 4,95 09:38

METHOD

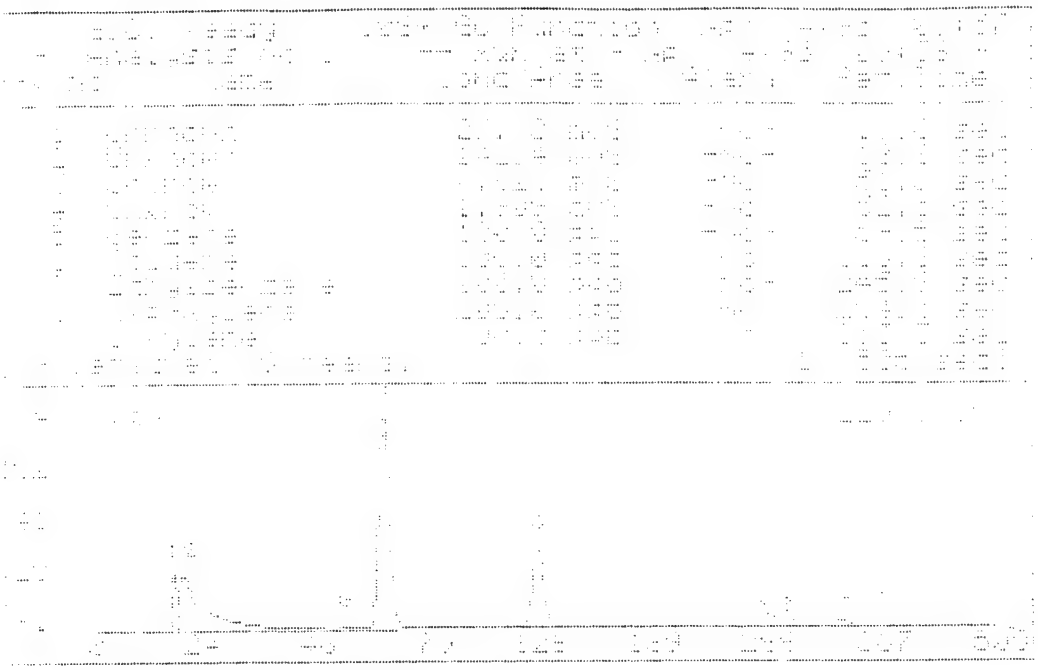
SLOPE UP	0.500	mV/SEC
SLOPE DOWN	1.500	mV/SEC
MIN AREA	0.100	mVSEC
MIN HEIGHT	0.100	mV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	30	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

PEAK REPORT

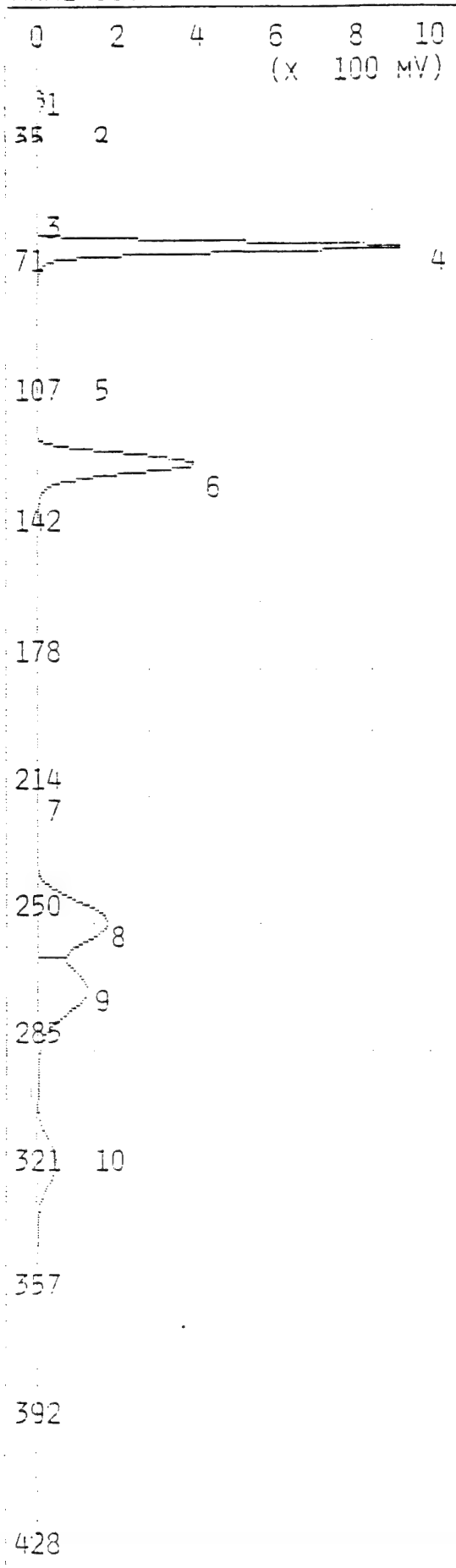
PK	COMPOUND NAME	AREA/CONC	R.T.
1	UNKNOWN	27.78 mVS	16.8
2	UNKNOWN	142.4 mVS	18.6
3	UNKNOWN	0.621 mVS	51.3
4	UNKNOWN	1.909 mVS	52.5
5	UNKNOWN	214.2 mVS	59.5
6	UNKNOWN	170.4 mVS	118.8
7	UNKNOWN	136.3 mVS	245.8
8	UNKNOWN	106.0 mVS	264.5
9	UNKNOWN	42.79 mVS	313.3

NOTES

JOE BYRD, JR.
WORCESTER ADD 1315-199
100 PPB BTEX



ANALYSIS #2 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 10:09
SAMPLE TIME: APR 4,95 10:01

METHOD

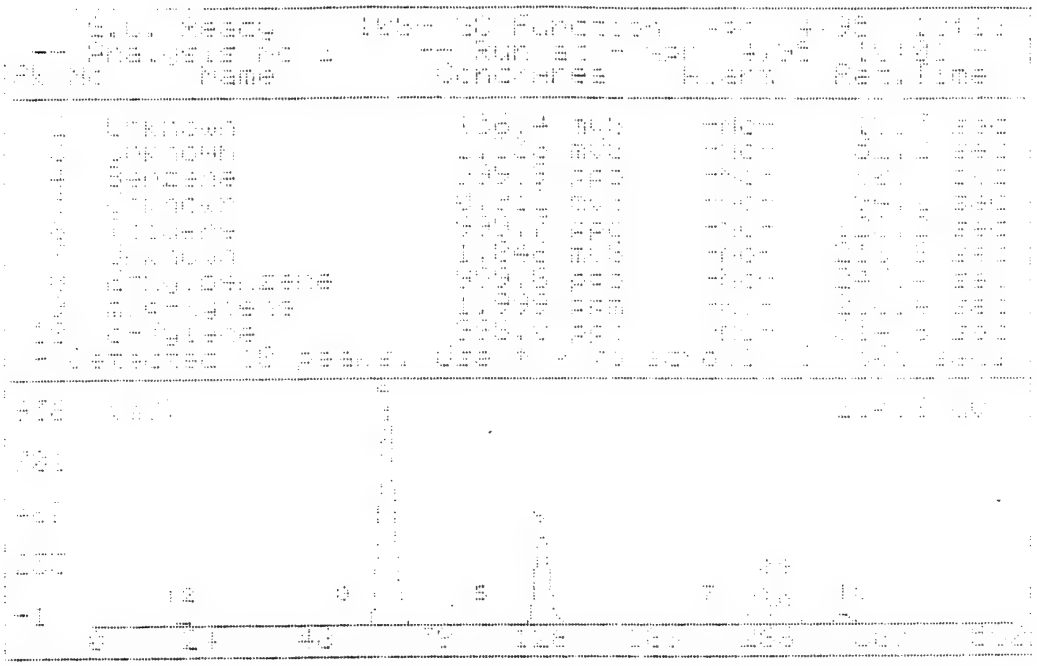
SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	31	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

PEAK REPORT

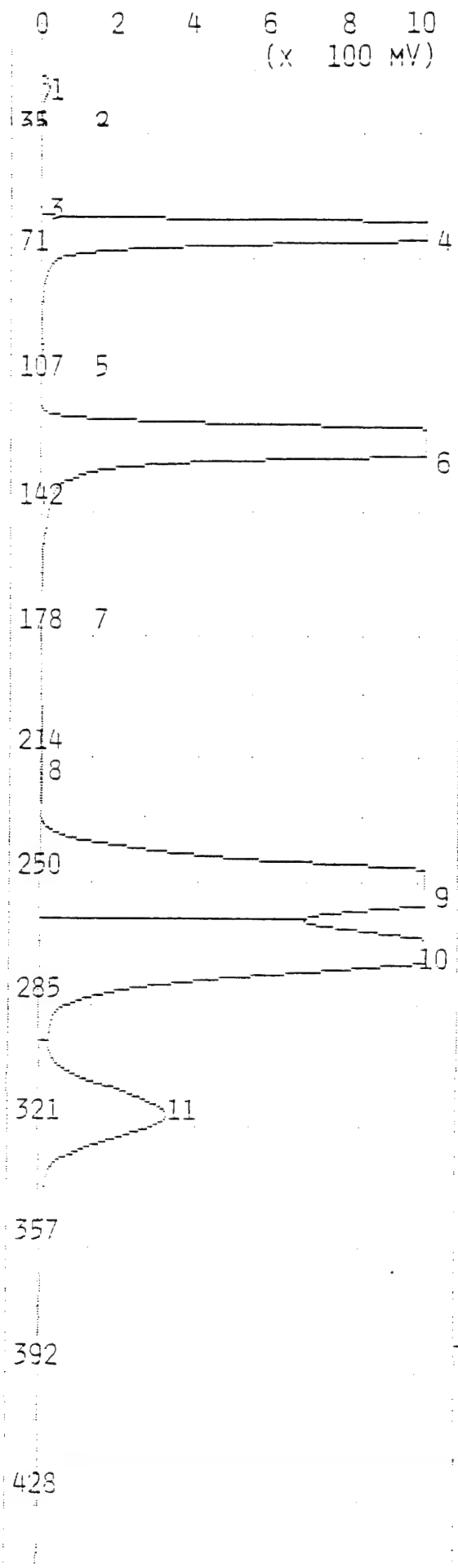
PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	27.14	MVS	17.0
2	UNKNOWN	156.4	MVS	18.7
3	UNKNOWN	2.338	MVS	52.2
4	BENZENE	1.508	PPM	60.4
5	UNKNOWN	0.912	MVS	94.2
6	TOLUENE	1.620	PPM	120.2
7	UNKNOWN	1.846	MVS	216.6
8	ETHYLBENZENE	1.843	PPM	247.4
9	M,P-XYLENE	3.721	PPM	266.4
10	O-XYLENE	2.349	PPM	314.6

NOTES

JOE BYRD, JR. 57
WORCESTER ADD ~~121~~ 1315 199
~~100~~ 53 PPB M BTEX



ANALYSIS #3 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 10:27
SAMPLE TIME: APR 4,95 10:19

METHOD

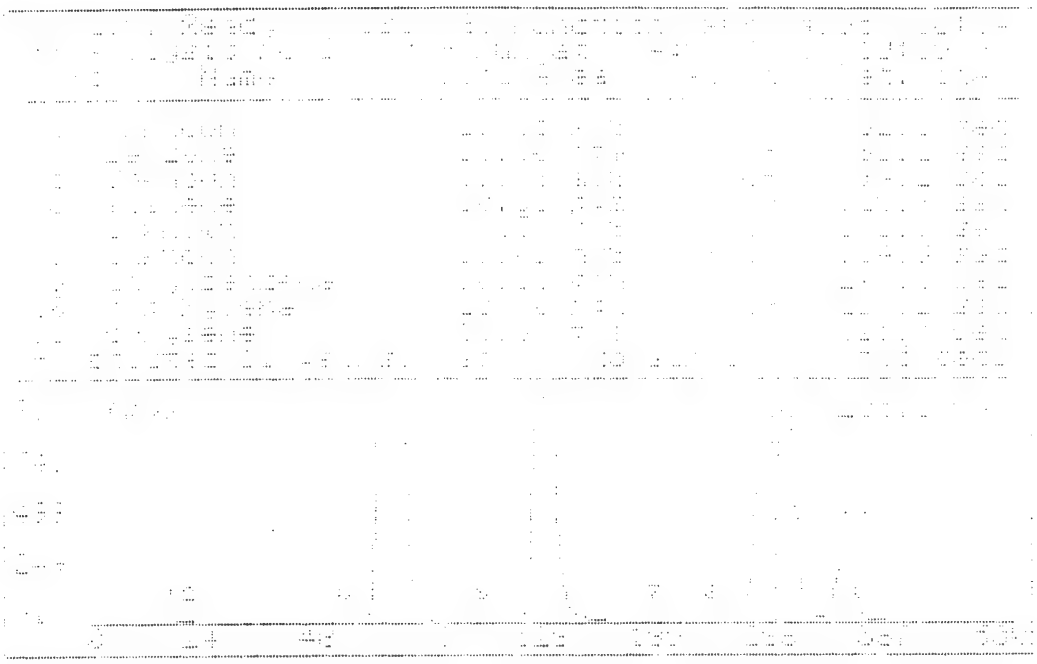
SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	31	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

PEAK REPORT

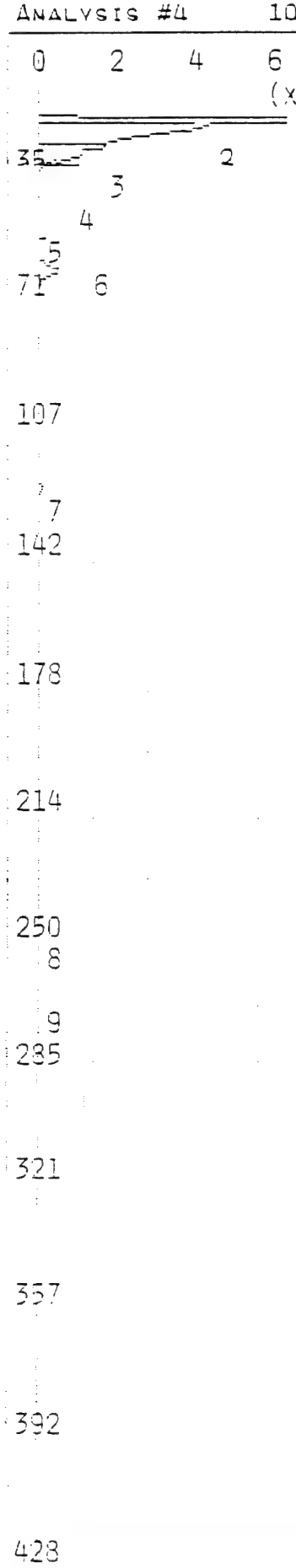
PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	27.37	MVS	17.0
2	UNKNOWN	174.8	MVS	18.8
3	UNKNOWN	2.165	MVS	52.0
4	BENZENE	5.678	PPM	61.2
5	UNKNOWN	8.906	MVS	94.2
6	TOLUENE	7.083	PPM	120.9
7	UNKNOWN	4.139	MVS	171.0
8	UNKNOWN	11.02	MVS	214.0
9	ETHYLBENZENE	8.719	PPM	249.0
10	M,P-XYLENE	18.85	PPM	267.2
11	O-XYLENE	6.485	PPM	315.4

NOTES

JOE BYRD, JR.
WORCESTER ADD 131 -199
10 PPM BTEX



ANALYSIS #4 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 10:45
SAMPLE TIME: APR 4,95 10:36

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	32	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

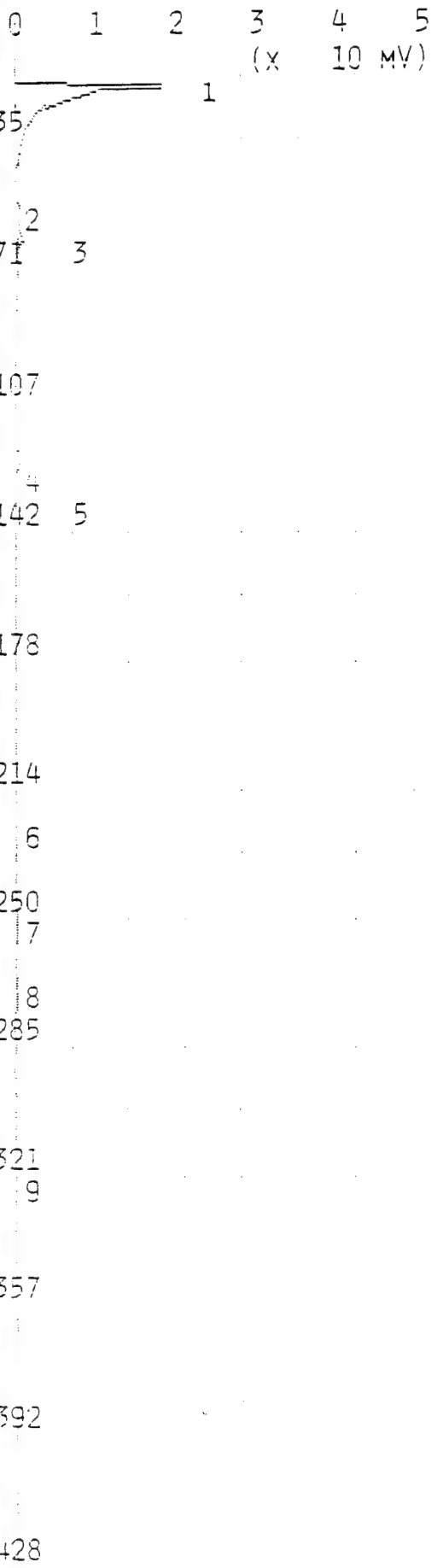
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	10.97	MVS	17.2
2	UNKNOWN	21.42	MVS	19.0
3	UNKNOWN	4.871	MVS	24.5
4	UNKNOWN	16.86	MVS	26.5
5	UNKNOWN	5.244	MVS	52.7
6	BENZENE	1.878	PPB	60.1
7	TOLUENE	1.283	PPB	119.8
8	ETHYLBENZENE	3.142	PPB	248.0
9	M,P-XYLENE	6.685	PPB	267.4

NOTES

JOE BYRD, JR.
WORCESTER ADD 315-199
AIR BLANK

Analysis #5 1994 RP Function Analysis Report



Time Printed: Apr 4,95 11:10
Sample Time: Apr 4,95 11:02

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.100	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	500.0	sec

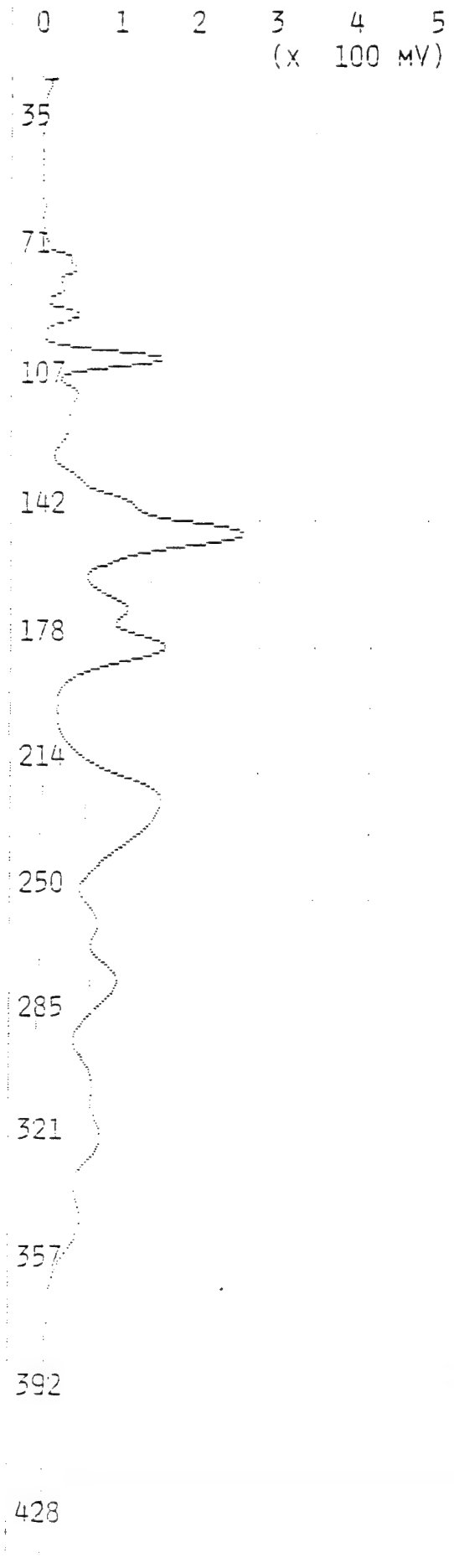
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	100.6	mVS	17.2
2	Unknown	8.795	mVS	52.1
3	Benzene	0.659	ppb	60.1
4	Toluene	3.790	ppb	120.4
5	Unknown	1.971	mVS	131.0
6	Unknown	1.411	mVS	224.4
7	Ethylbenzene	3.596	ppb	249.6
8	m,p-Xylene	8.491	ppb	268.0
9	o-Xylene	3.455	ppb	318.1

Notes

Joe Byrd, Jr.
Worcester Add 135-199
01-016BH 0.5-2.0 10G

ANALYSIS #6 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 11:24
SAMPLE TIME: APR 4,95 11:16

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	31	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

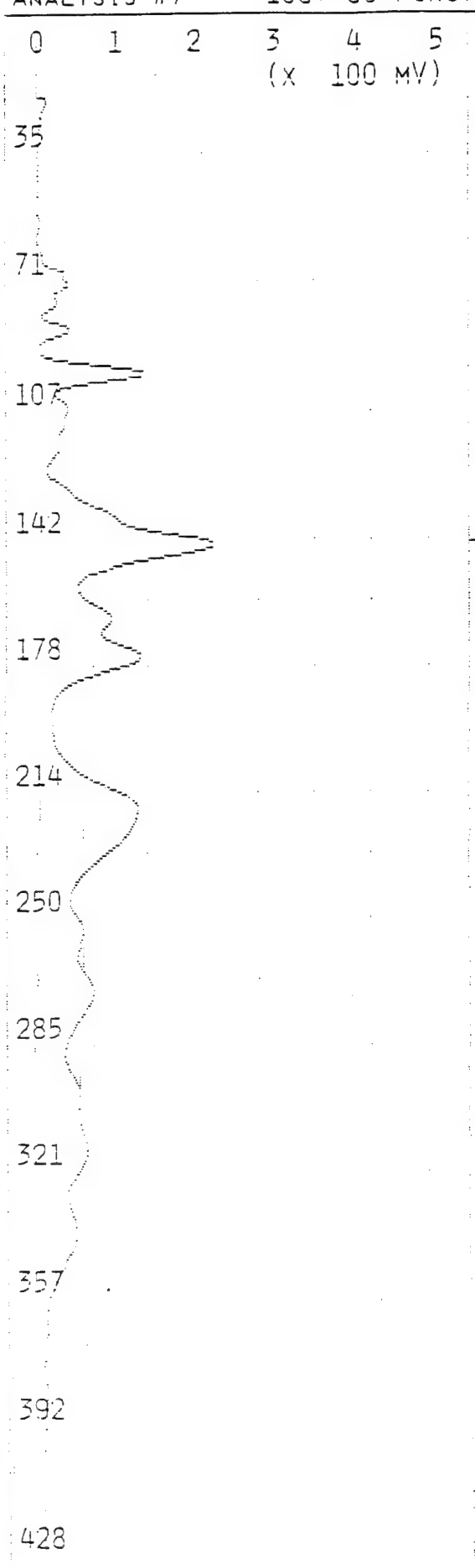
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC	R.T.

NOTES

JOE BYRD, JR.
WORCESTER ADD 135-199
01-016BH ~~0.5-2.0~~ 10G
7.5-9.0

ANALYSIS #7 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 11:39
SAMPLE TIME: APR 4,95 11:31

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	31	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

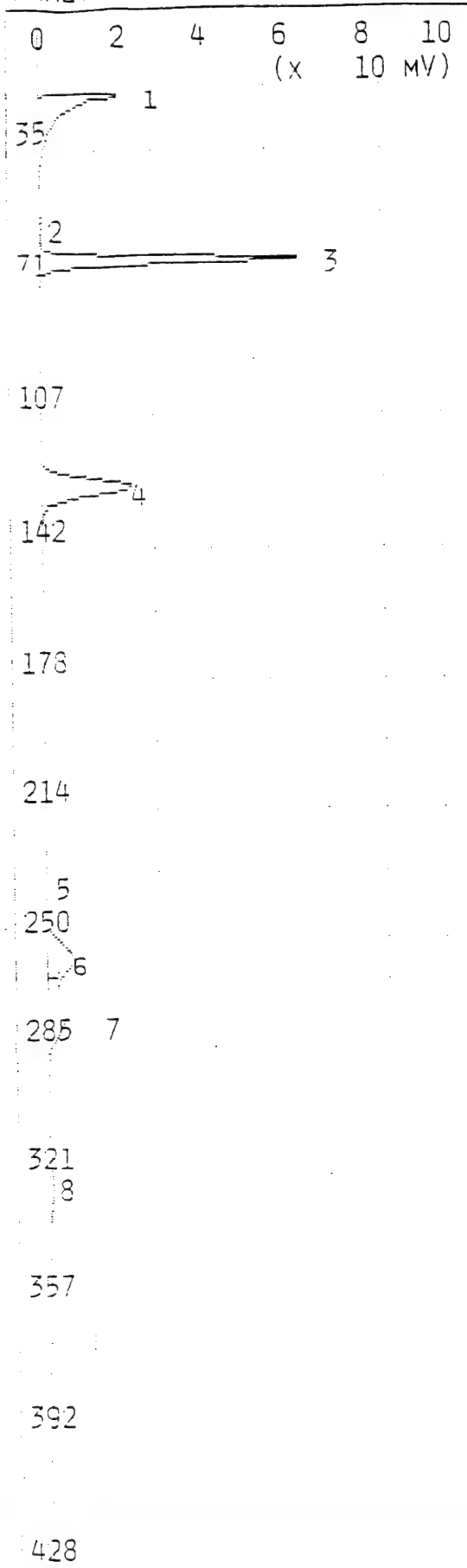
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC	R.T.

NOTES

JOE BYRD, JR.
WORCESTER ANGS
01-016BH 7.5-9.0 10G
RESHOT 2X DILUTION

ANALYSIS #8 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 12:07
SAMPLE TIME: APR 4,95 11:58

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	31	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

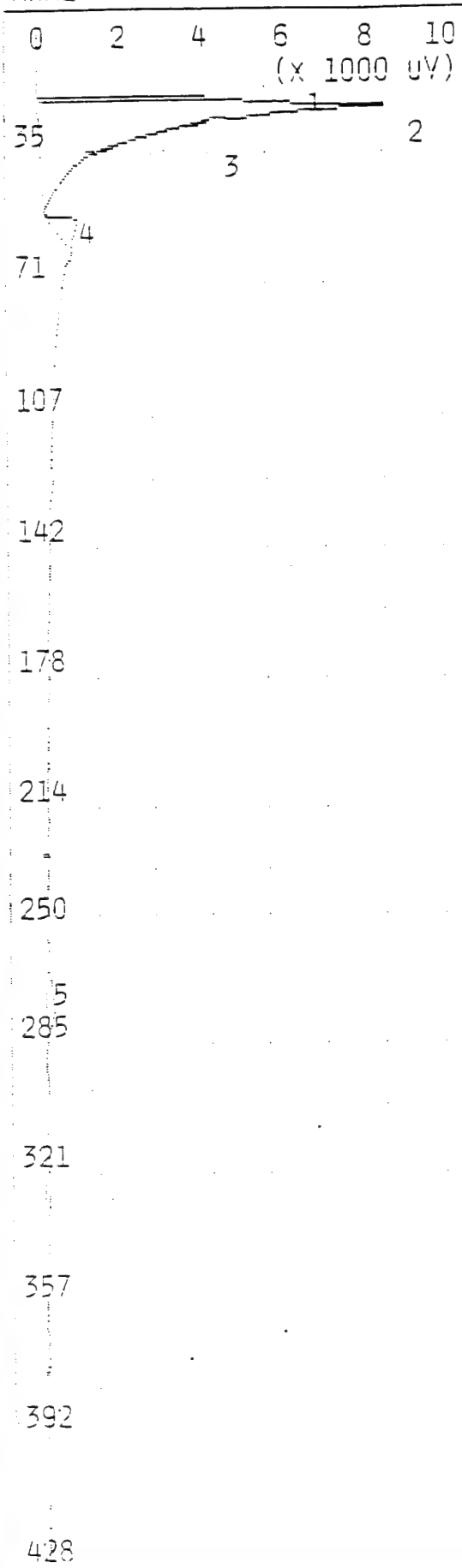
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	135.0	MVS	18.3
2	UNKNOWN	4.552	MVS	51.6
3	BENZENE	77.62	PPB	62.8
4	TOLUENE	72.67	PPB	123.8
5	UNKNOWN	3.881	MVS	226.8
6	ETHYLBENZENE	69.75	PPB	254.1
7	M,P-XYLENE	141.5	PPB	273.3
8	O-XYLENE	57.67	PPB	322.4

NOTES

JOE BYRD, JR.
WORCESTER ANGS
100 PPB BTEX

ANALYSIS #9 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 12:25
SAMPLE TIME: APR 4,95 12:17

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	31	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

PEAK REPORT

PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	8.437	MVS	17.6
2	UNKNOWN	80.91	MVS	19.4
3	UNKNOWN	0.320	MVS	25.0
4	UNKNOWN	4.000	MVS	51.4
5	M,P-XYLENE	5.332	PPB	270.4

NOTES

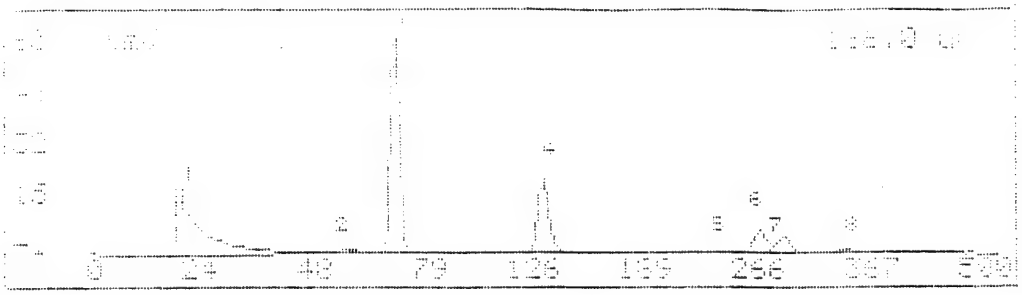
JOE BYRD, JR.
WORCESTER ANGS
AIR BLANK

Sys. Ready Test-GC Function Apr 1, 87 12:12

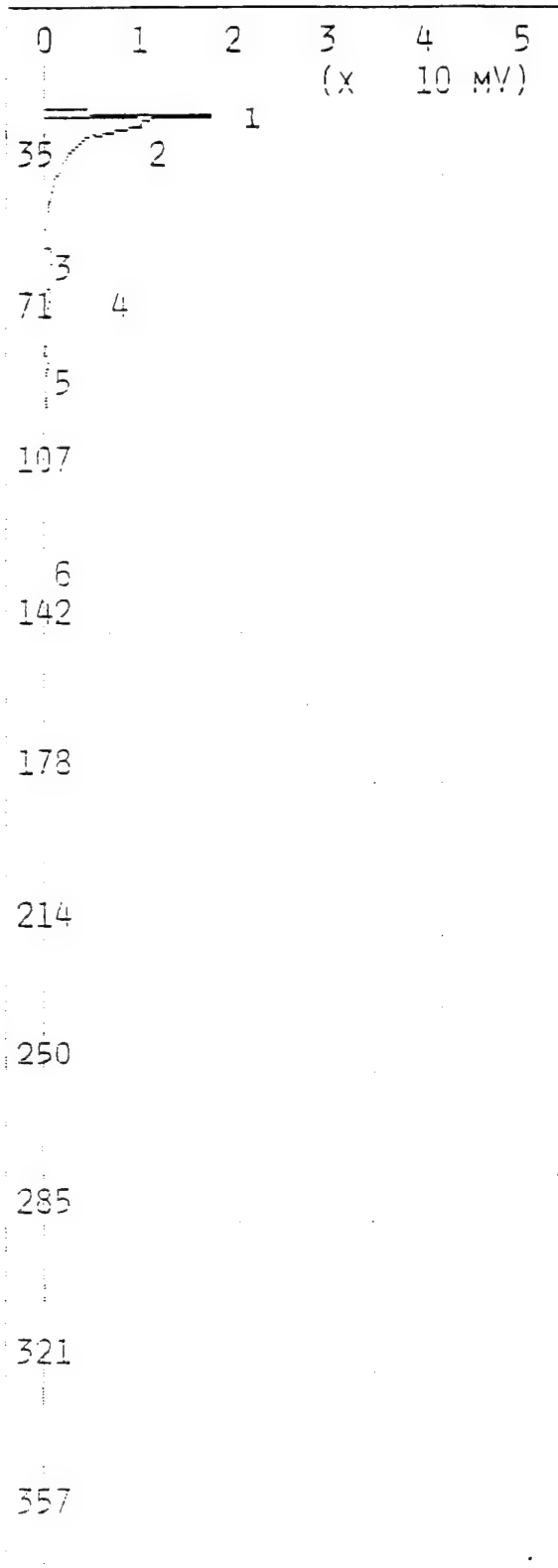
-- Analysis No. 8 -- Run at - Sec 4.58 11:58 -

No	Name	Conc Area	Alarm	Ret.Time
1	[illegible]	[illegible] mVS	[illegible]	[illegible]
2	[illegible]	[illegible] mVS	[illegible]	[illegible]
3	[illegible]	[illegible] PPB	[illegible]	[illegible]
4	[illegible]	[illegible] PPB	[illegible]	[illegible]
5	[illegible]	[illegible] mVS	[illegible]	[illegible]
6	[illegible]	[illegible] PPB	[illegible]	[illegible]
7	[illegible]	[illegible] PPB	[illegible]	[illegible]
8	[illegible]	[illegible] PPB	[illegible]	[illegible]

- Detected 8 peaks. [illegible] sec.



ANALYSIS #10 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 12:37
SAMPLE TIME: APR 4,95 12:29

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	31	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

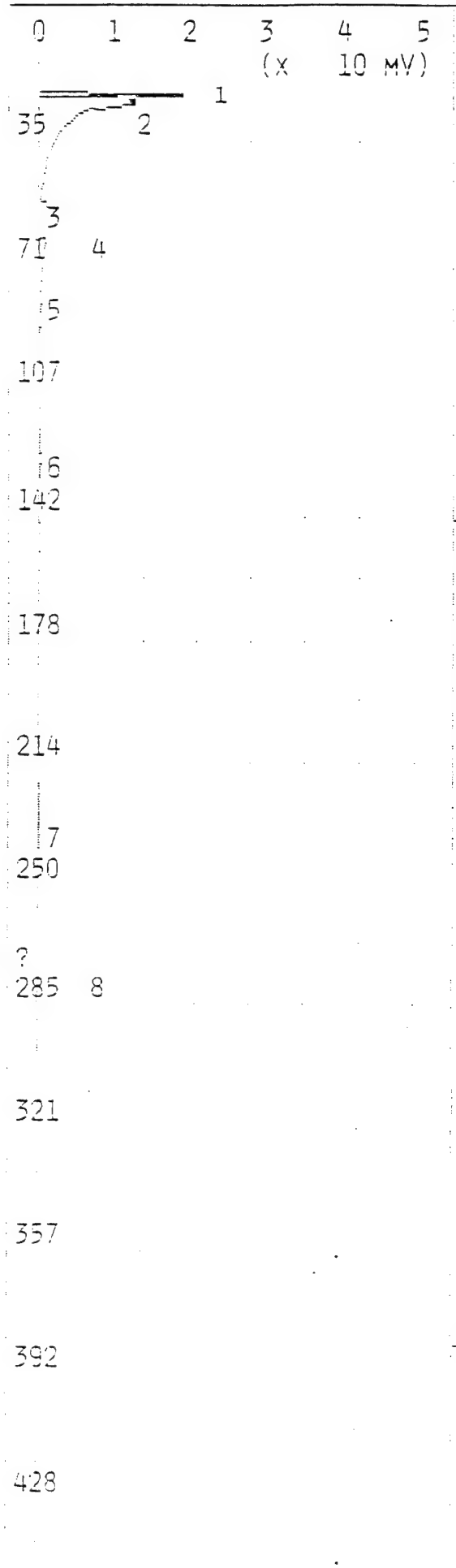
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	27.71	MVS	18.1
2	UNKNOWN	90.29	MVS	20.2
3	UNKNOWN	10.23	MVS	51.3
4	BENZENE	4.159	PPB	62.0
5	UNKNOWN	2.496	MVS	77.6
6	TOLUENE	0.554	PPB	123.0

NOTES

JOE BYRD, JR.
WORCESTER ANGS
01-017BH 0.5-2.0
10G

ANALYSIS #11 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 12:50
SAMPLE TIME: APR 4,95 12:41

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	31	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

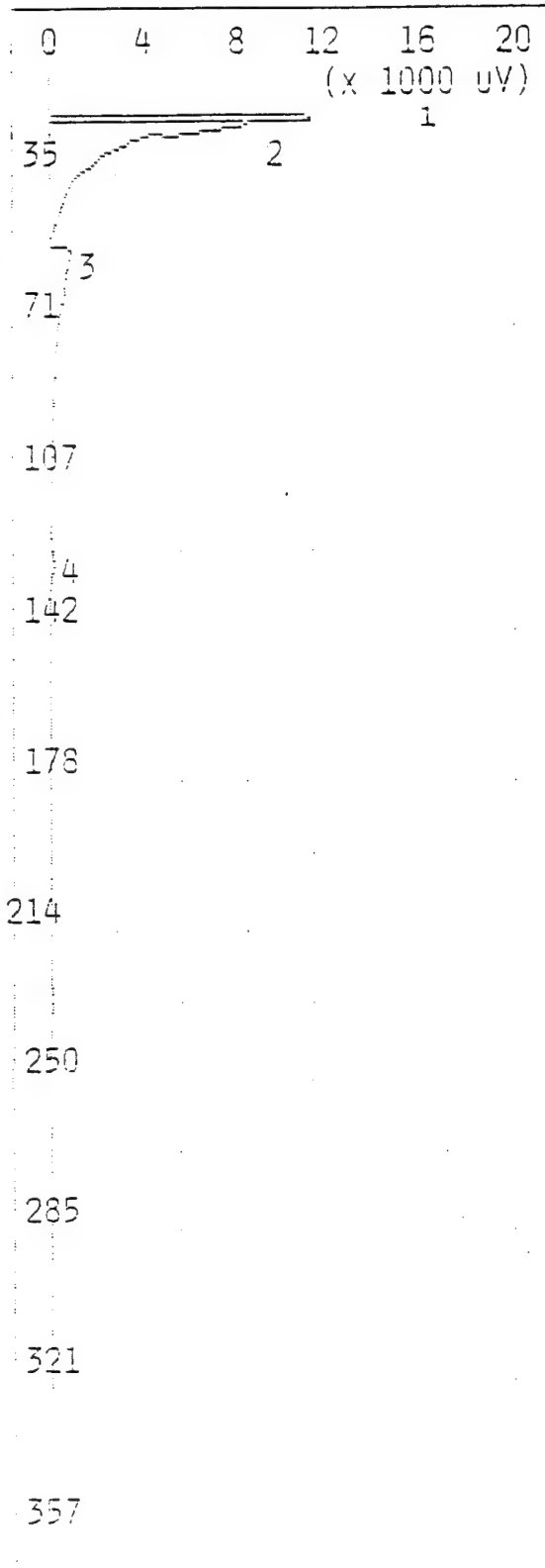
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	29.62	MVS	18.8
2	UNKNOWN	110.3	MVS	21.2
3	UNKNOWN	12.48	MVS	51.2
4	BENZENE	5.112	PPB	62.8
5	UNKNOWN	2.313	MVS	78.8
6	TOLUENE	1.265	PPB	124.5
7	ETHYLBENZENE	4.787	PPB	228.8
8	M,P-XYLENE	4.266	PPB	273.3

NOTES

JOE BYRD, JR.
WORCESTER ANGS
01-017BH 5.5-7.0
10G

ANALYSIS #12 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 13:16
SAMPLE TIME: APR 4,95 13:08

METHOD

SLOPE UP	1.000	mV/SEC
SLOPE DOWN	3.000	mV/SEC
MIN AREA	0.100	mVSEC
MIN HEIGHT	0.100	mV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	31	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

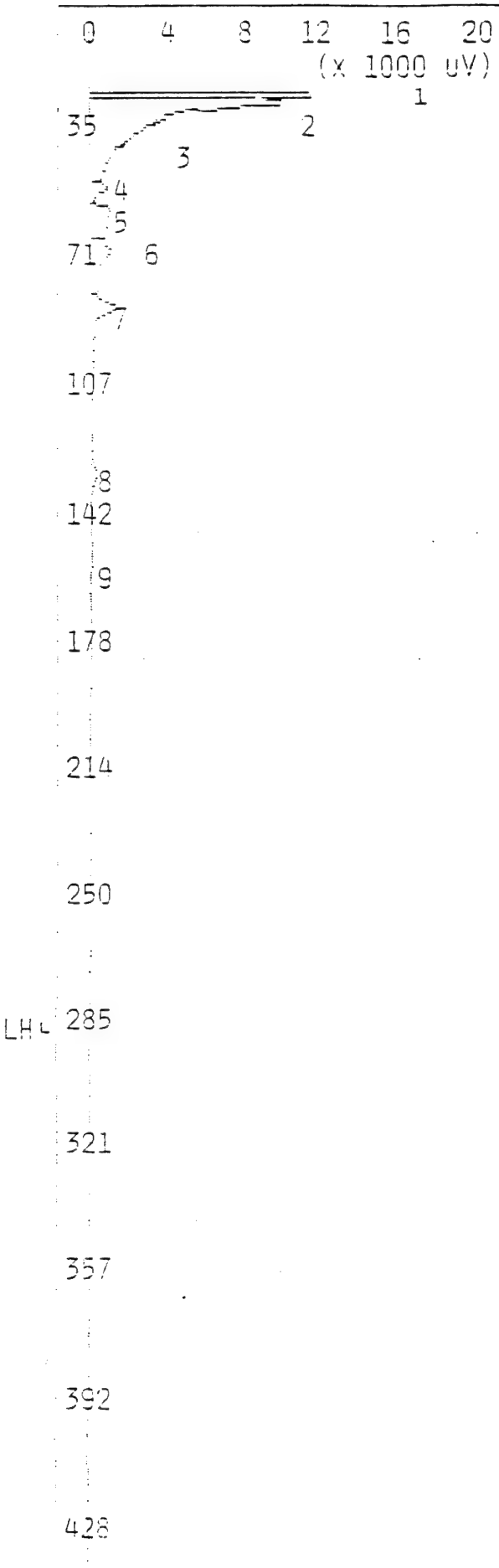
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC	R.T.
1	UNKNOWN	23.00 mVS	18.4
2	UNKNOWN	74.20 mVS	20.2
3	UNKNOWN	3.148 mVS	52.0
4	TOLUENE	0.387 PPB	125.2

NOTES

JOE BYRD, JR.
WORCESTER ANGS
01-018BH 0.5-2.0
10G

ANALYSIS #13 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 13:47
SAMPLE TIME: APR 4,95 13:39

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	31	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

PEAK REPORT

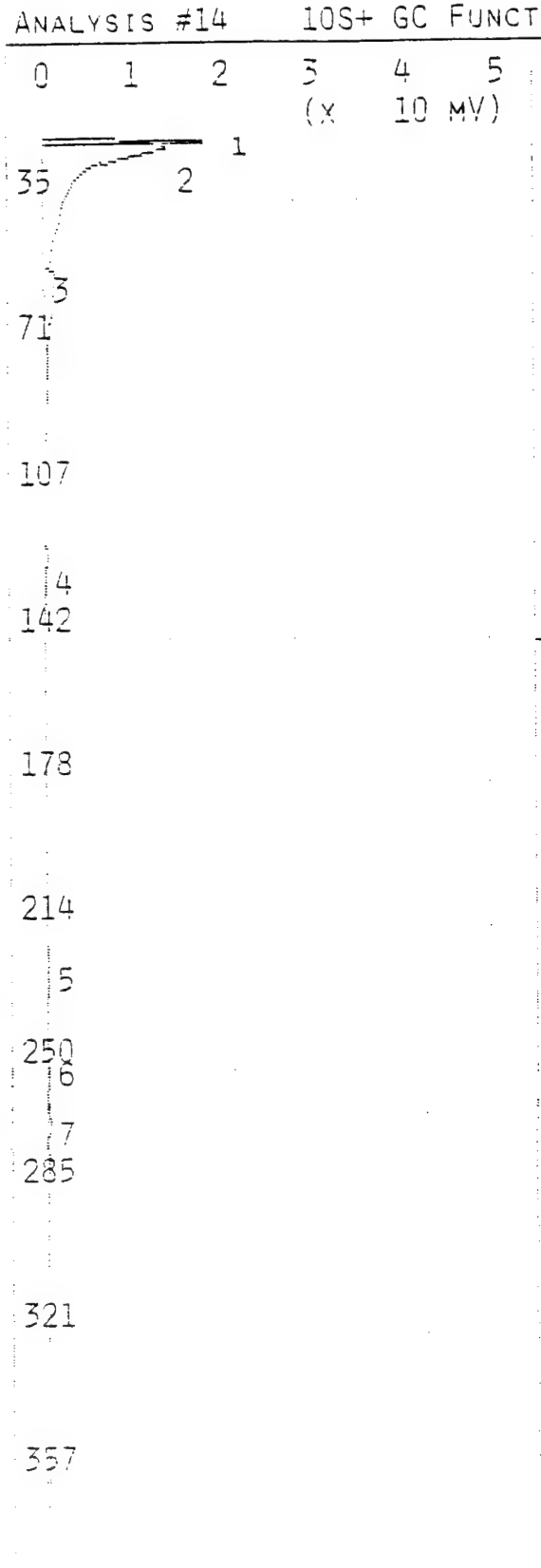
PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	22.26	MVS	18.4
2	UNKNOWN	88.32	MVS	20.8
3	UNKNOWN	0.108	MVS	26.2
4	UNKNOWN	5.129	MVS	45.6
5	UNKNOWN	11.17	MVS	51.2
6	BENZENE	6.164	PPB	63.0
7	UNKNOWN	6.636	MVS	78.9
8	TOLUENE	1.486	PPB	124.6
9	UNKNOWN	0.845	MVS	148.4

NOTES

JOE BYRD, JR.
WORCESTER ANGS
01-018BH ~~0.5-2.0~~ 5.0-6.0 B
10G

LHL

ANALYSIS #14 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 14:22
SAMPLE TIME: APR 4,95 14:14

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	31	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

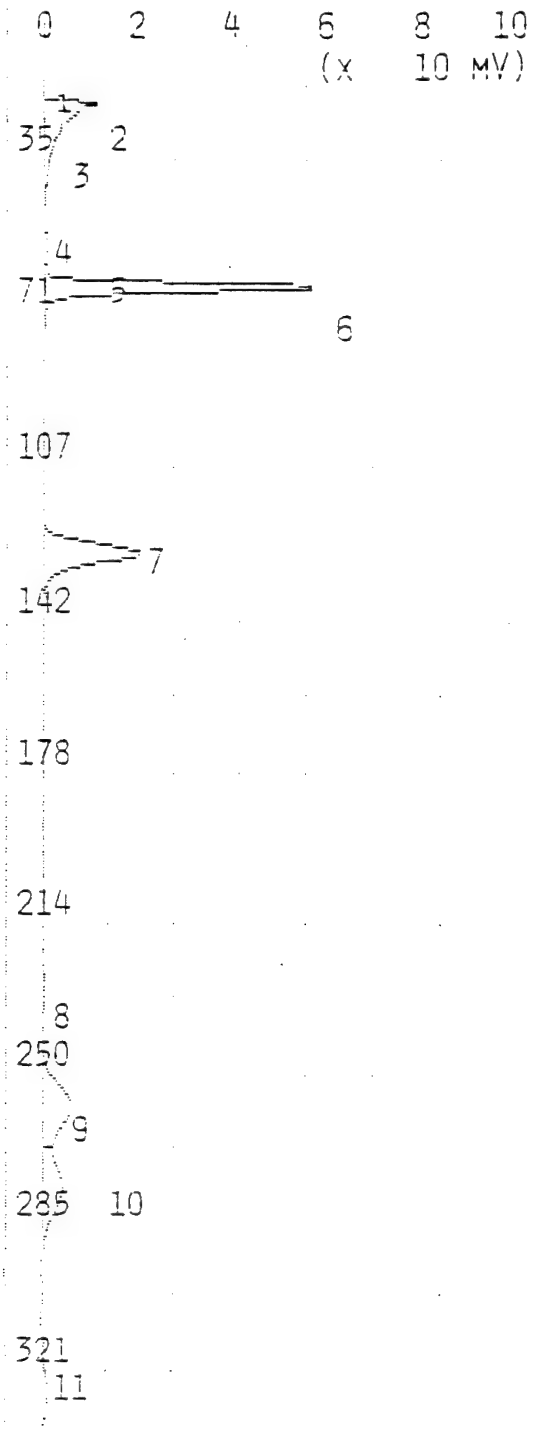
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	25.36	MVS	17.2
2	UNKNOWN	129.6	MVS	18.7
3	UNKNOWN	20.82	MVS	51.4
4	TOLUENE	1.354	PPB	120.9
5	UNKNOWN	1.801	MVS	221.0
6	ETHYLBENZENE	1.714	PPB	248.5
7	M,P-XYLENE	9.774	PPB	267.7

NOTES

JOE BYRD, JR.
WORCESTER ANGS
01-020BH 0.5-2.0
10G

ANALYSIS #15 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 14:35
SAMPLE TIME: APR 4,95 14:27

METHOD

SLOPE UP	0.500	mV/SEC
SLOPE DOWN	1.500	mV/SEC
MIN AREA	0.100	mVSEC
MIN HEIGHT	0.100	mV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	31	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

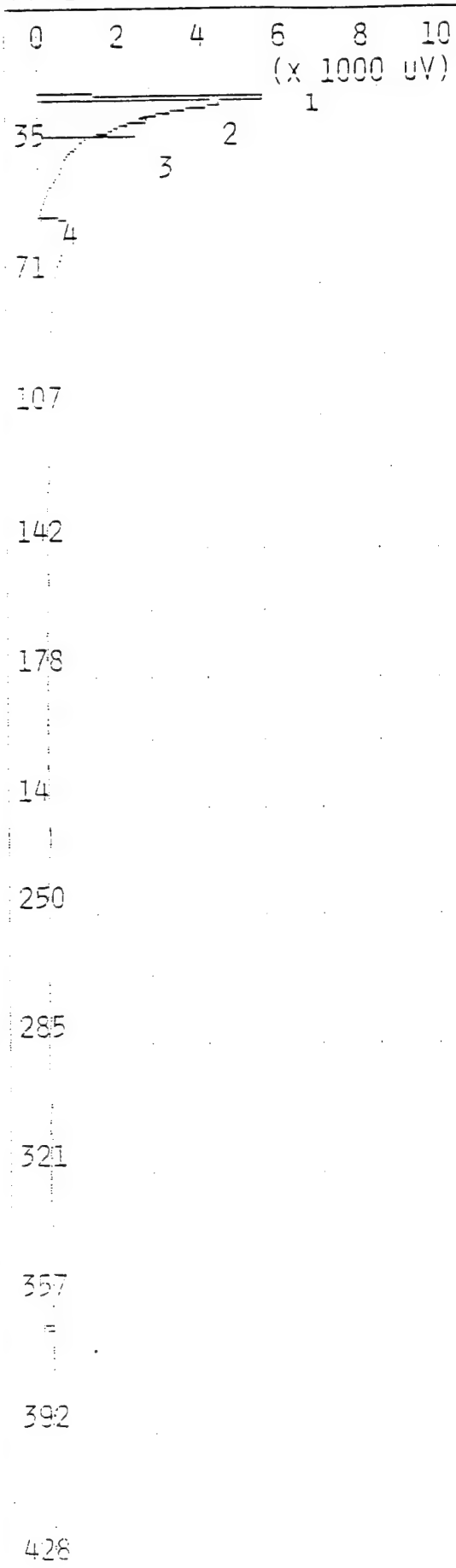
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	0.036	mVS	16.6
2	UNKNOWN	102.1	mVS	18.5
3	UNKNOWN	0.849	mVS	26.4
4	UNKNOWN	0.789	mVS	51.2
5	UNKNOWN	3.312	mVS	52.0
6	BENZENE	94.36	PPB	63.2
7	TOLUENE	92.98	PPB	124.4
8	UNKNOWN	5.560	mVS	228.2
9	ETHYLBENZENE	83.80	PPB	254.9
10	M,P-XYLENE	166.9	PPB	274.4
11	O-XYLENE	72.46	PPB	323.7

NOTES

JOE BYRD, JR.
WORCESTER ANGS
100 PPB BTEX

ANALYSIS #16 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 14:50
SAMPLE TIME: APR 4,95 14:42

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	31	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

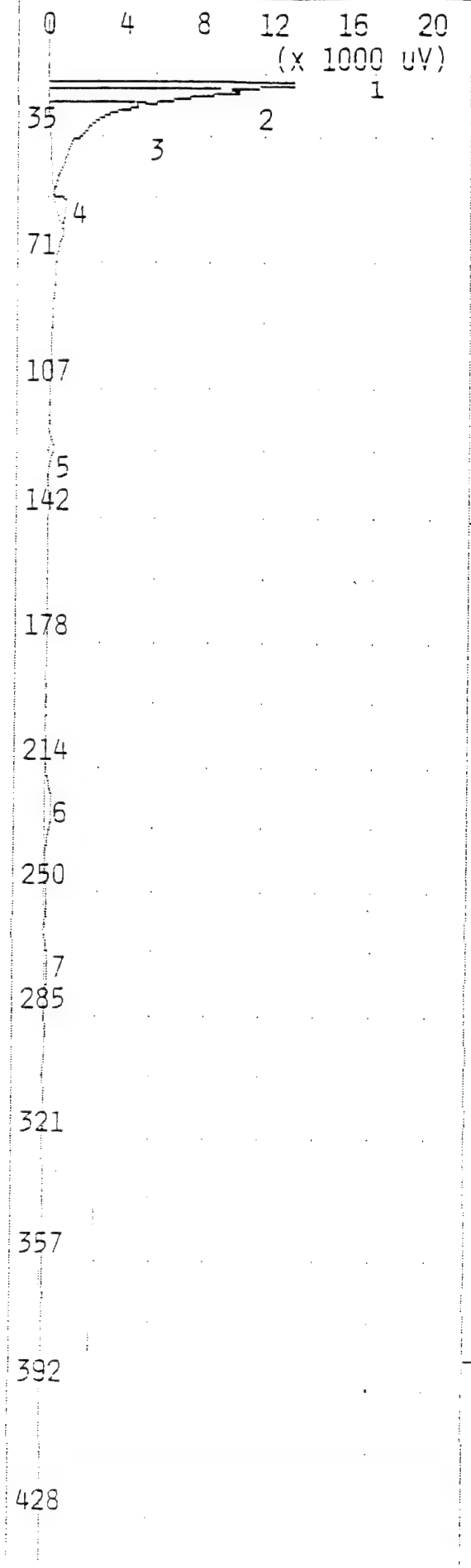
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC	R.T.
1	UNKNOWN	8.619 MVS	17.2
2	UNKNOWN	21.38 MVS	18.8
3	UNKNOWN	27.69 MVS	24.4
4	UNKNOWN	3.318 MVS	51.8

NOTES

JOE BYRD, JR.
WORCESTER ANG
AIR BLANK

ANALYSIS #17 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 15:11
SAMPLE TIME: APR 4,95 15:02

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	32	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

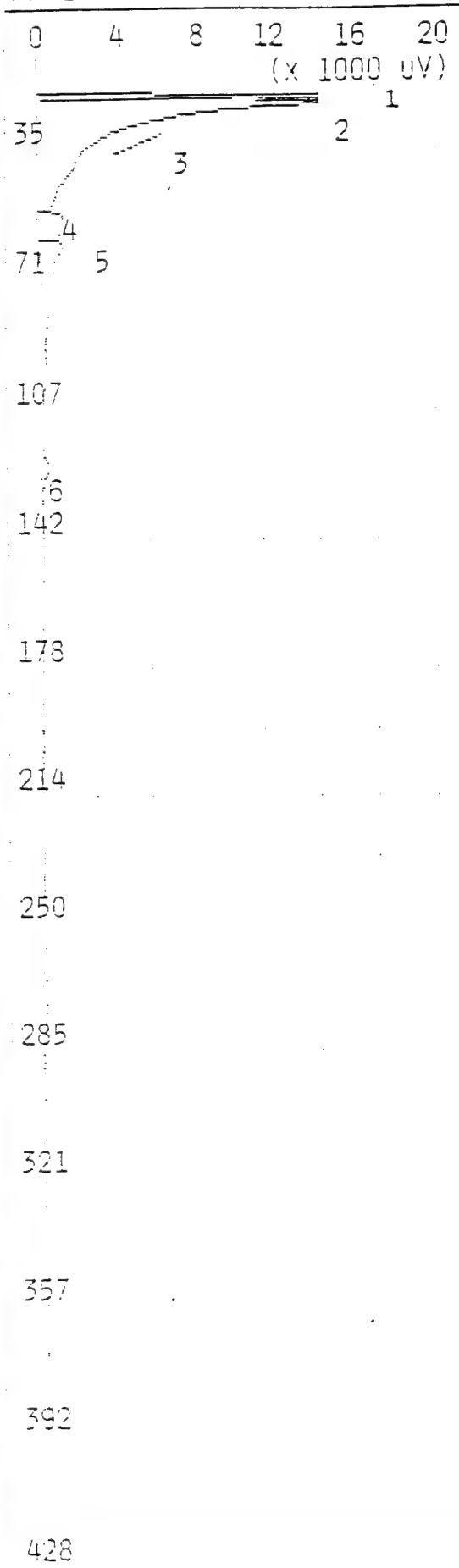
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC	R.T.
1	UNKNOWN	20.74 MVS	17.6
2	UNKNOWN	43.99 MVS	19.3
3	UNKNOWN	41.18 MVS	25.0
4	UNKNOWN	3.500 MVS	52.2
5	TOLUENE	1.153 PPB	122.1
6	UNKNOWN	11.75 MVS	222.4
7	M,P-XYLENE	24.87 PPB	267.7

NOTES

JOE BYRD, JR.
WORCESTER ANG
01-020BH DUP
0.5-2.0 10G

ANALYSIS #18 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 15:23
SAMPLE TIME: APR 4,95 15:15

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	32	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

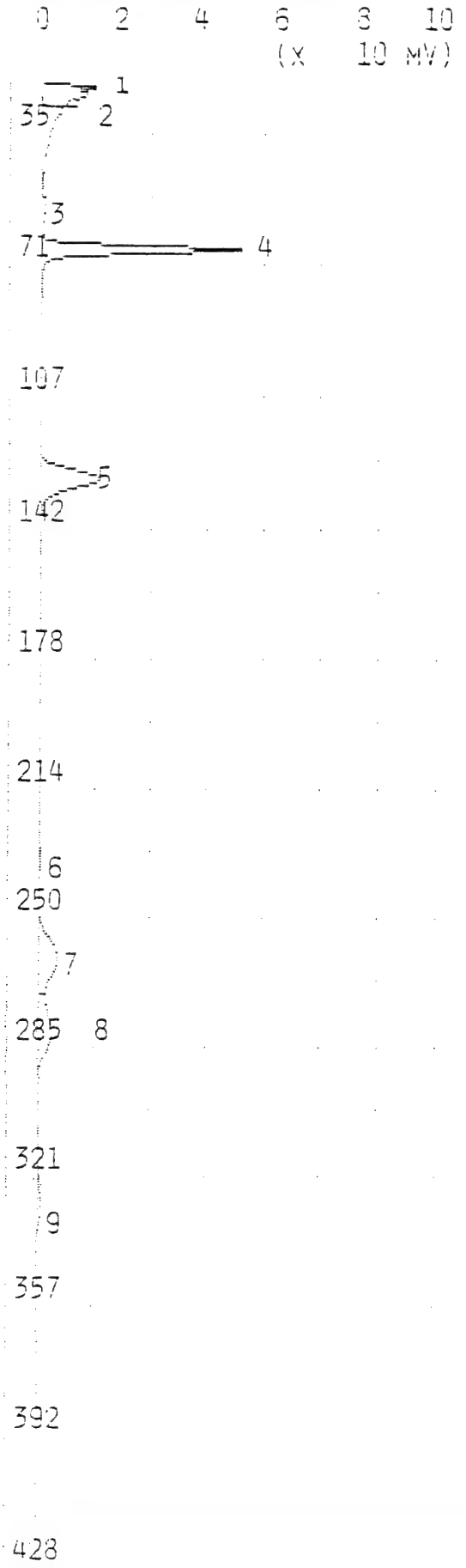
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	19.39	MVS	17.2
2	UNKNOWN	128.2	MVS	18.9
3	UNKNOWN	1.276	MVS	24.4
4	UNKNOWN	9.777	MVS	51.2
5	BENZENE	8.964	PPB	60.1
6	TOLUENE	1.342	PPB	120.0

NOTES

JOE BYRD, JR.
WORCESTER ANGS
01-021
0.5-2.0 10G

ANALYSIS #19 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 4,95 15:36
SAMPLE TIME: APR 4,95 15:27

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.100	MVSEC
MIN HEIGHT	0.100	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	32	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

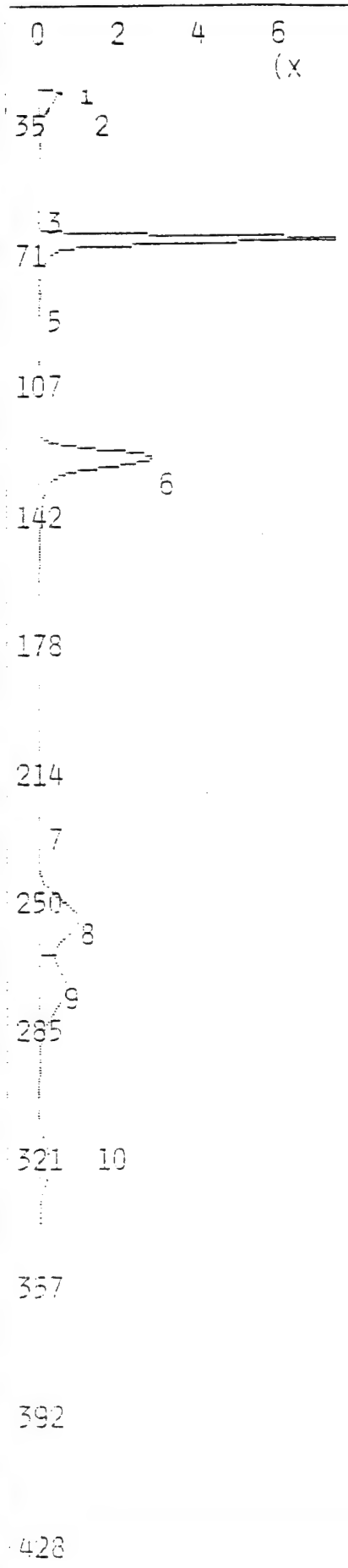
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	22.20	MVS	19.4
2	UNKNOWN	111.3	MVS	21.2
3	UNKNOWN	13.17	MVS	52.0
4	BENZENE	85.92	PPB	64.9
5	TOLUENE	76.78	PPB	126.8
6	UNKNOWN	4.812	MVS	231.0
7	ETHYLBENZENE	81.29	PPB	258.9
8	M,P-XYLENE	160.5	PPB	278.1
9	O-XYLENE	62.84	PPB	326.9

NOTES

JOE BYRD, JR.
WORCESTER ANGS
100 PPB BTEX

ANALYSIS #1 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 5,95 10:00
SAMPLE TIME: APR 5,95 09:51

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.000	MVSEC
MIN HEIGHT	0.000	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	31	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

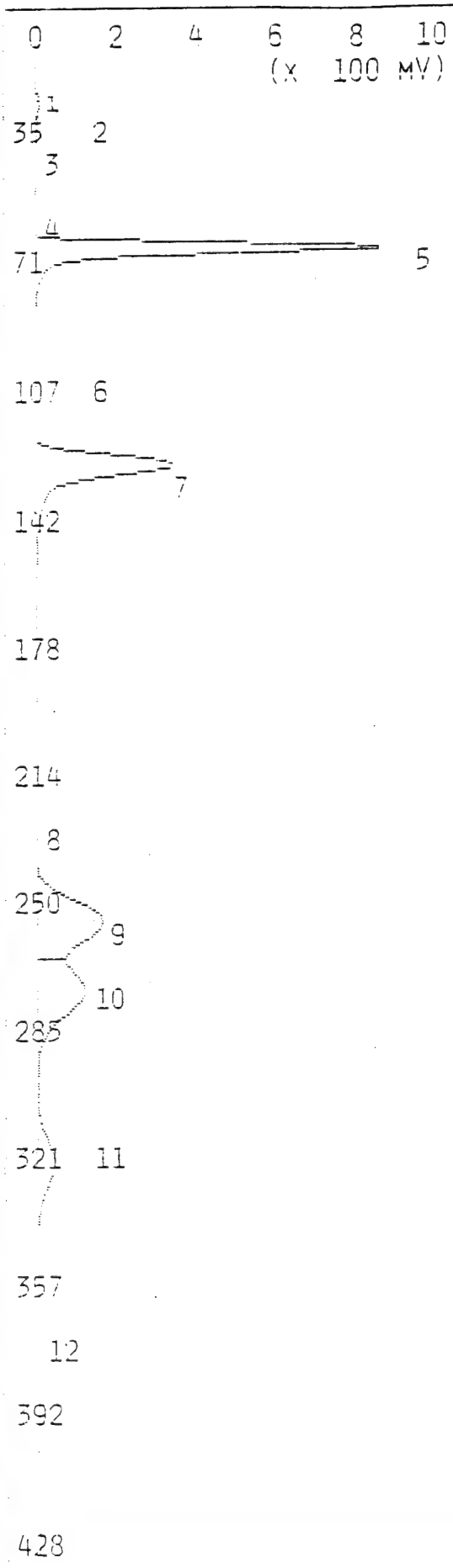
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC	R.T.
1	UNKNOWN	44.01 MVS	17.0
2	UNKNOWN	0.792 MVS	24.1
3	UNKNOWN	3.430 MVS	52.1
4	UNKNOWN	213.7 MVS	59.6
5	UNKNOWN	0.961 MVS	74.5
6	UNKNOWN	184.1 MVS	119.4
7	UNKNOWN	5.241 MVS	220.4
8	UNKNOWN	137.2 MVS	247.2
9	UNKNOWN	108.8 MVS	266.1
10	UNKNOWN	41.14 MVS	314.6

NOTES

JOE BYRD, JR.
WORCESTER ANGS
100 PPB BTEX

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Apr 5,95 10:19
Sample Time: Apr 5,95 10:11

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	500.0	sec

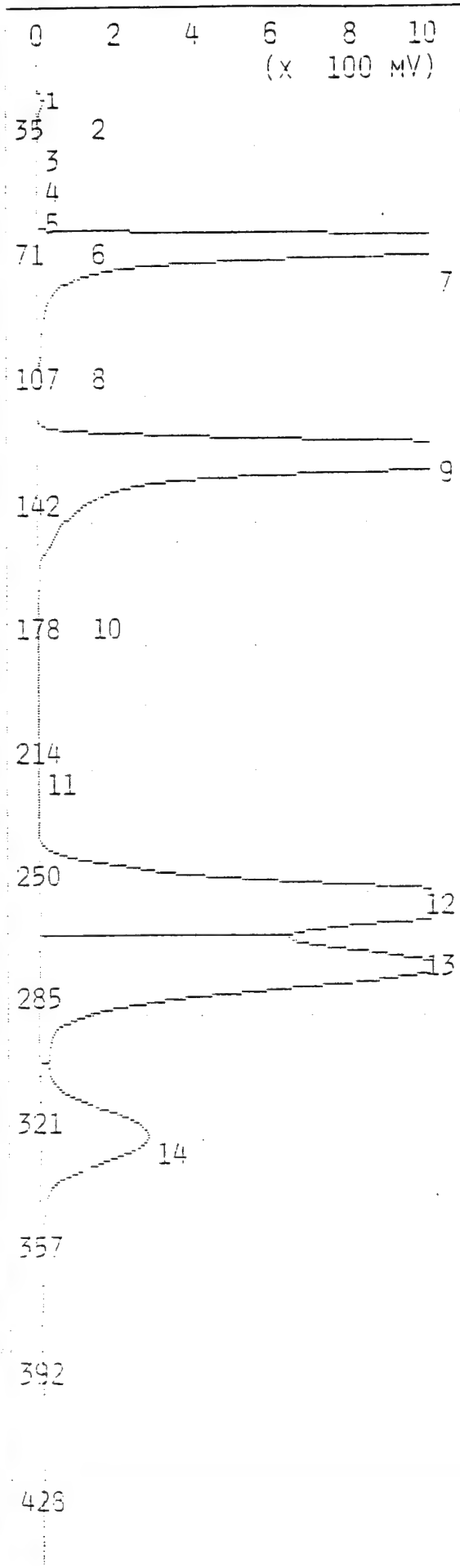
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	17.84	mVS	17.0
2	Unknown	111.7	mVS	18.8
3	Unknown	0.810	mVS	24.3
4	Unknown	6.668	mVS	51.9
5	Benzene	1.526	ppm	60.3
6	Unknown	1.041	mVS	94.0
7	Toluene	1.447	ppm	120.2
8	Unknown	2.178	mVS	219.8
9	Ethylbenzene	1.742	ppm	247.7
10	m,p-Xylene	3.469	ppm	266.9
11	o-Xylene	2.247	ppm	315.4
12	Unknown	1.149	mVS	360.3

Notes

Joe Byrd, Jr.
Worcester ANGS
1 ppm BTEX

ANALYSIS #3 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 5,95 10:36
SAMPLE TIME: APR 5,95 10:27

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.000	MVSEC
MIN HEIGHT	0.000	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	32	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

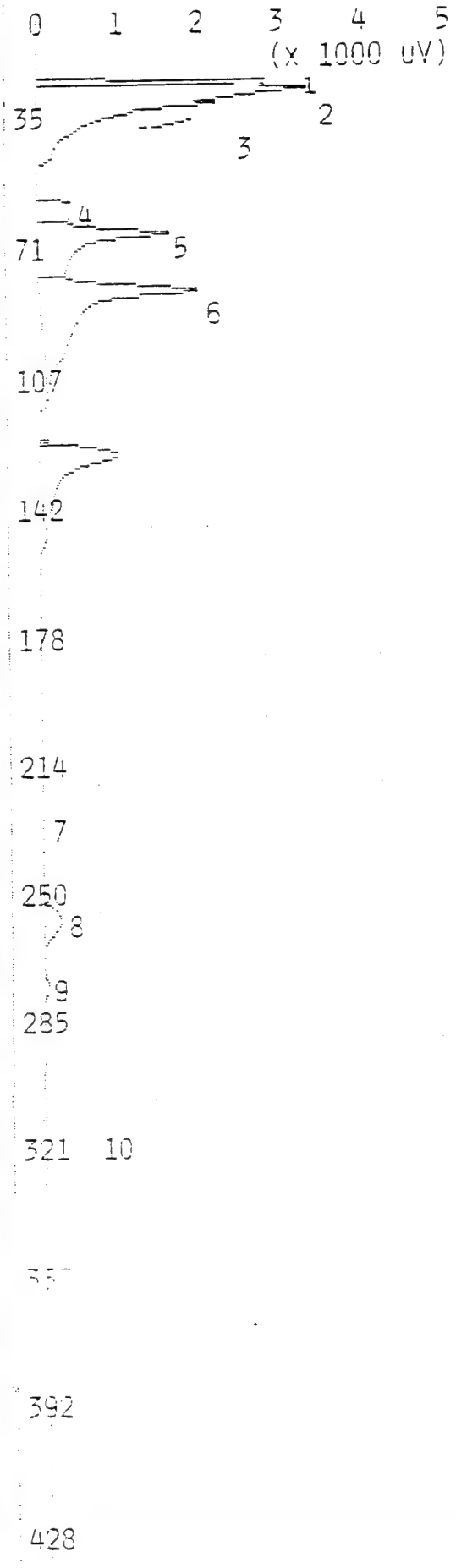
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	14.13	MVS	17.0
2	UNKNOWN	123.9	MVS	18.8
3	UNKNOWN	0.981	MVS	24.2
4	UNKNOWN	39.26	MVS	31.1
5	UNKNOWN	0.290	MVS	38.7
6	UNKNOWN	1.713	MVS	52.2
7	BENZENE	6.424	PPM	61.2
8	UNKNOWN	7.330	MVS	94.0
9	TOLUENE	7.842	PPM	121.7
10	UNKNOWN	3.223	MVS	172.0
11	UNKNOWN	9.592	MVS	215.8
12	ETHYLBENZENE	8.411	PPM	251.2
13	M,P-XYLENE	16.63	PPM	269.6
14	O-XYLENE	5.929	PPM	317.8

NOTES

JOE BYRD, JR.
WORCESTER ANGS
10 PPM BTEX

ANALYSIS #4 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 5,95 10:53
SAMPLE TIME: APR 5,95 10:44

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.000	MVSEC
MIN HEIGHT	0.000	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	32	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

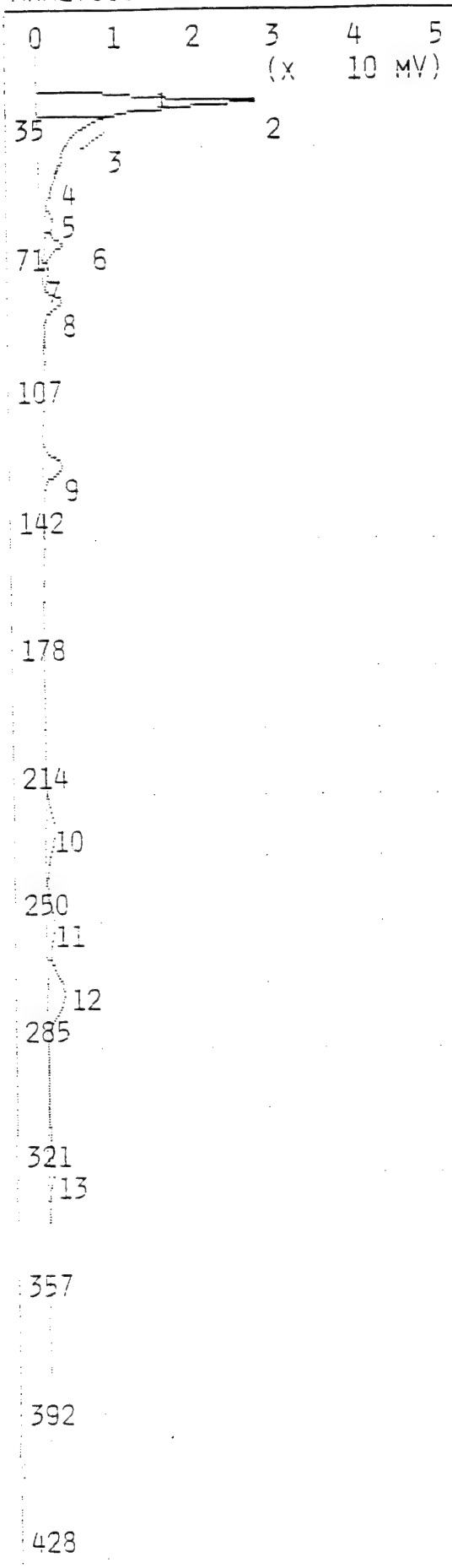
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	4.446	MVS	17.1
2	UNKNOWN	40.65	MVS	18.8
3	UNKNOWN	0.779	MVS	24.4
4	UNKNOWN	4.459	MVS	51.8
5	BENZENE	5.505	PPB	59.8
6	UNKNOWN	16.45	MVS	75.2
7	UNKNOWN	2.852	MVS	222.4
8	ETHYLBENZENE	7.300	PPB	249.3
9	M,P-XYLENE	11.99	PPB	266.9
10	O-XYLENE	7.350	PPB	311.4

NOTES

JOE BYRD, JR.
WORCESTER ANGS
AIR BLANK

ANALYSIS #5 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 5,95 11:05
SAMPLE TIME: APR 5,95 10:57

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.000	MVSEC
MIN HEIGHT	0.000	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	32	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

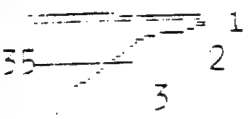
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	17.33	MVS	17.0
2	UNKNOWN	221.8	MVS	18.8
3	UNKNOWN	1.240	MVS	24.3
4	UNKNOWN	1.580	MVS	36.8
5	UNKNOWN	4.600	MVS	52.9
6	BENZENE	4.357	PPB	59.7
7	UNKNOWN	2.307	MVS	66.9
8	UNKNOWN	9.856	MVS	75.3
9	TOLUENE	8.617	PPB	120.2
10	UNKNOWN	15.51	MVS	222.0
11	ETHYLBENZENE	8.826	PPB	248.5
12	M,P-XYLENE	55.65	PPB	267.4
13	O-XYLENE	28.00	PPB	316.5

NOTES

JOE BYRD, JR.
WORCESTER ANGS
01-022BH
0.5-2.0
10G

ANALYSIS #6 103+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 5,95 11:18
SAMPLE TIME: APR 5,95 11:09

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.000	MVSEC
MIN HEIGHT	0.000	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	32	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

PEAK REPORT

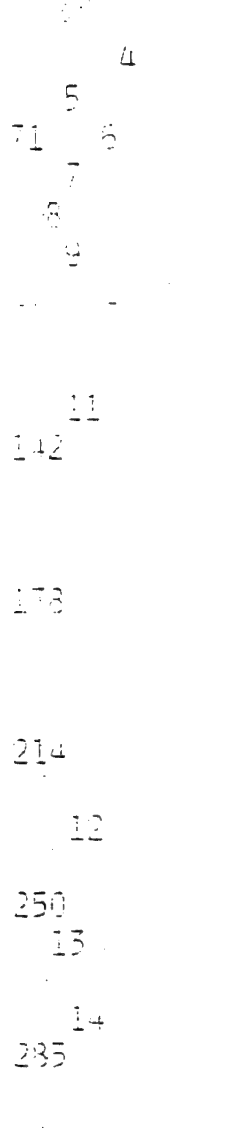
PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	25.30	MVS	17.2
2	UNKNOWN	87.94	MVS	18.6
3	UNKNOWN	149.2	MVS	24.4
4	UNKNOWN	20.26	MVS	51.4
5	BENZENE	8.600	PPB	60.2
6	UNKNOWN	9.924	MVS	75.3
7	TOLUENE	2.404	PPB	120.6
8	UNKNOWN	10.14	MVS	221.3
9	ETHYLBENZENE	3.080	PPB	250.9
10	M,P-XYLENE	9.433	PPB	269.8
11	O-XYLENE	8.471	PPB	314.4

NOTES

JOE BYRD, JR.
WORCESTER ANGS
01-023BH
0.5-2.0
10G

ANALYSIS #7 10S+ 80 FUNCTION ANALYSIS REPORT

0 1 2 3 4 5
(X 10 MV)



TIME PRINTED: APR 5,95 11:30
SAMPLE TIME: APR 5,95 11:22

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.000	MVSEC
MIN HEIGHT	0.000	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	40	[illegible]
ANB TEMP	53	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

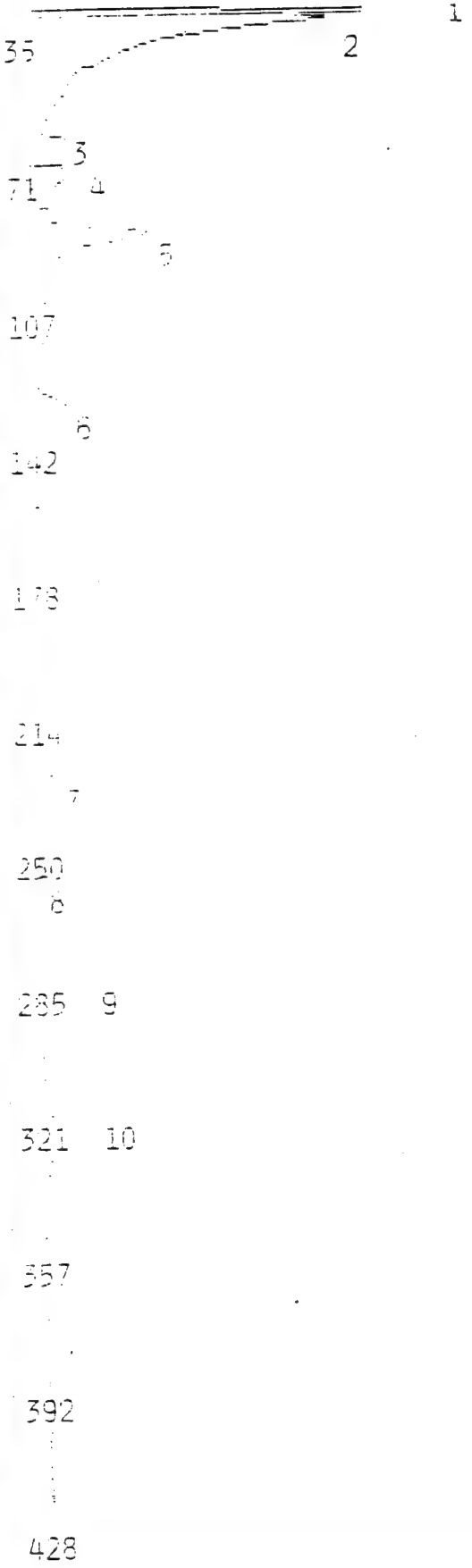
PEAK REPORT

Pk	COMPOUND NAME	AREA/CONC	R.T.
1	UNKNOWN	0.091 MVS	15.8
2	UNKNOWN	8.722 MVS	17.1
3	UNKNOWN	139.2 MVS	19.0
4	UNKNOWN	0.974 MVS	24.4
5	UNKNOWN	1.734 MVS	37.0
6	UNKNOWN	5.535 MVS	53.2
7	BENZENE	2.736 PPB	60.2
8	UNKNOWN	2.685 MVS	68.0
9	UNKNOWN	7.116 MVS	76.2
10	UNKNOWN	0.134 MVS	93.8
11	TOLUENE	6.277 PPB	120.6
12	UNKNOWN	28.87 MVS	223.2
13	ETHYLBENZENE	3.397 PPB	251.2
14	M,P-XYLENE	50.27 PPB	269.3
15	O-XYLENE	22.14 PPB	318.4

NOTES

JOE BYRD, JR.
WORCESTER ANGS
01-022BH DUP
0.5-2.0
10G

ANALYSIS #8 106+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 5,95 11:48
SAMPLE TIME: APR 5,95 11:40

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.000	MVSEC
MIN HEIGHT	0.000	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	33	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

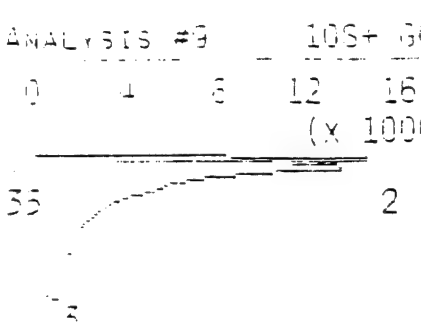
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC	R.T.
1	UNKNOWN	12.54 MVS	17.0
2	UNKNOWN	75.92 MVS	18.9
3	UNKNOWN	7.086 MVS	51.6
4	BENZENE	2.874 PPB	60.0
5	UNKNOWN	16.02 MVS	75.7
6	TOLUENE	2.945 PPB	121.7
7	UNKNOWN	9.371 MVS	224.8
8	ETHYLBENZENE	2.432 PPB	252.5
9	M,P-XYLENE	9.724 PPB	270.9
10	O-XYLENE	8.524 PPB	311.2

NOTES

JOE BYRD, JR.
WORCESTER ANGS
01-019BH
0.5-2.0
10G

ANALYSIS #9 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 5,95 12:01
SAMPLE TIME: APR 5,95 11:53

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.000	MVSEC
MIN HEIGHT	0.000	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	33	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

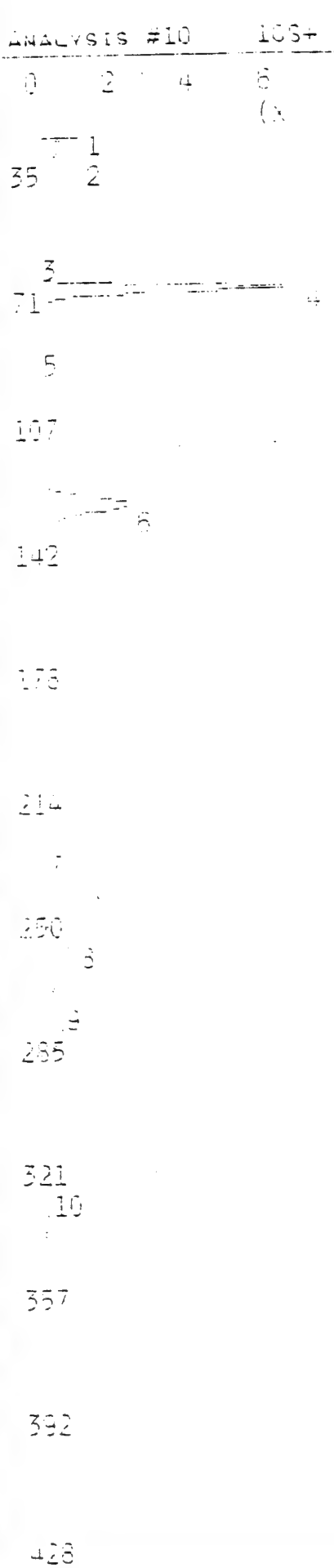
PEAK REPORT

Pk	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	21.84	MVS	17.1
2	UNKNOWN	119.9	MVS	19.4
3	UNKNOWN	8.935	MVS	51.5
4	BENZENE	3.732	PPB	60.3
5	UNKNOWN	5.687	MVS	75.8
6	TOLUENE	1.315	PPB	120.5
7	UNKNOWN	1.181	MVS	218.2
8	UNKNOWN	9.051	MVS	224.0
9	ETHYLBENZENE	1.079	PPB	251.4
10	M,P-XYLENE	2.746	PPB	272.0

NOTES

JOE BYRD, JR.
WORCESTER AMBS
01-019BH
2.5-4.0
10G

ANALYSIS #10 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 5,95 12:13
SAMPLE TIME: APR 5,95 12:05

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.000	MVSEC
MIN HEIGHT	0.000	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	33	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

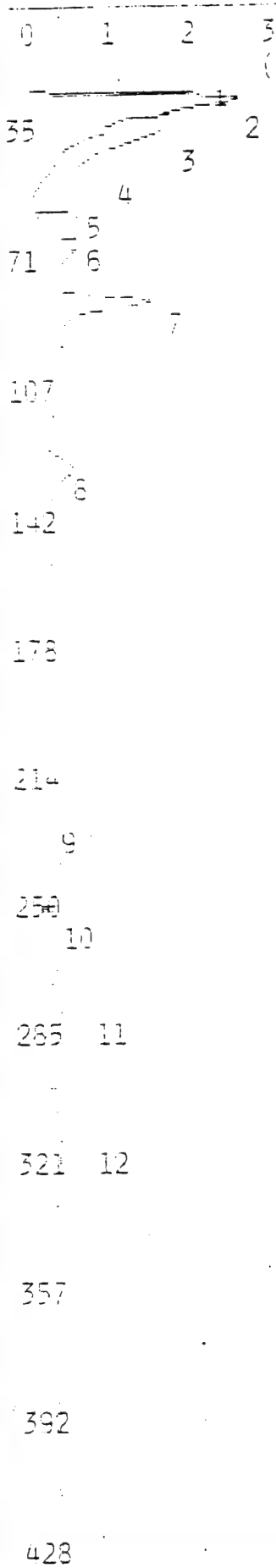
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC	R.T.
1	UNKNOWN	16.77 MVS	17.4
2	UNKNOWN	95.74 MVS	19.0
3	UNKNOWN	7.337 MVS	51.6
4	BENZENE	92.47 PPB	60.5
5	UNKNOWN	3.146 MVS	75.8
6	TOLUENE	82.50 PPB	121.2
7	UNKNOWN	3.778 MVS	225.6
8	ETHYLBENZENE	77.65 PPB	250.9
9	M,P-XYLENE	153.2 PPB	270.4
10	O-XYLENE	75.91 PPB	319.7

NOTES

JOE BYRD, JR.
WORCESTER ANGS
100 PPB BTEX

ANALYSIS #11 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 5,95 12:29
SAMPLE TIME: APR 5,95 12:21

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.000	MVSEC
MIN HEIGHT	0.000	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
S/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	33	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

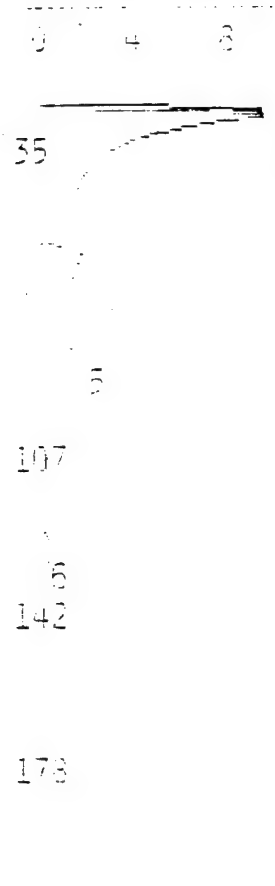
PEAK REPORT

PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	3.126	MVS	17.4
2	UNKNOWN	33.77	MVS	19.0
3	UNKNOWN	0.068	MVS	24.3
4	UNKNOWN	0.190	MVS	29.0
5	UNKNOWN	3.071	MVS	52.5
6	BENZENE	0.200	PPB	59.8
7	UNKNOWN	4.680	MVS	75.6
8	TOLUENE	1.332	PPB	121.3
9	UNKNOWN	6.247	MVS	223.8
10	ETHYLBENZENE	4.433	PPB	248.0
11	M,P-XYLENE	11.01	PPB	271.4
12	O-XYLENE	9.318	PPB	308.8

NOTES

JOE BYRD, JR.
WORCESTER ANGS
~~100 PPB BTEX~~ SB
AIR BLANK

ANALYSIS #12 10S+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 5,95 12:44
SAMPLE TIME: APR 5,95 12:36

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
S/P FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	33	C
MAX GAIN	1000	
ANALYSIS TIME	500.0	SEC

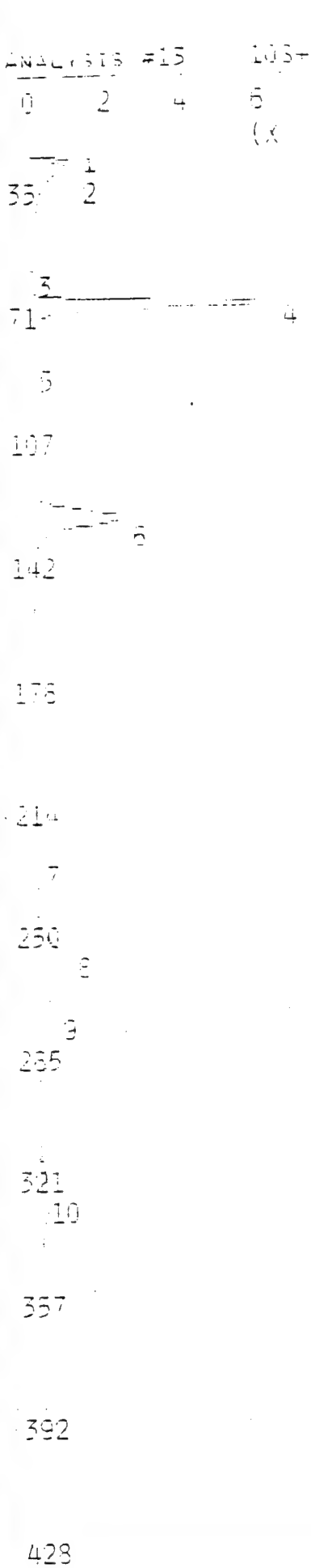
PEAK REPORT

Pk	COMPOUND NAME	AREA/CONC	R.T.
1	UNKNOWN	13.87 MVS	17.0
2	UNKNOWN	102.0 MVS	18.8
3	UNKNOWN	8.887 MVS	51.6
4	BENZENE	3.427 PPB	60.3
5	UNKNOWN	6.955 MVS	75.3
6	TOLUENE	1.872 PPB	120.4
7	UNKNOWN	12.20 MVS	222.6
8	ETHYLBENZENE	2.341 PPB	249.3
9	M,P-XYLENE	11.19 PPB	267.7
10	O-XYLENE	6.114 PPB	313.8

NOTES

JOE BYRD, JR.
WORCESTER ANGS
01-024BH
0.5-2.0
10G

ANALYSIS #15 103+ GC FUNCTION ANALYSIS REPORT



TIME PRINTED: APR 5,95 12:59
SAMPLE TIME: APR 5,95 12:51

METHOD

SLOPE UP	0.500	MV/SEC
SLOPE DOWN	1.500	MV/SEC
MIN AREA	0.000	MVSEC
MIN HEIGHT	0.000	MV
ANALYSIS DELAY	0.0	SEC
WINDOW PERCENT	10.0	%
DET FLOW	12	ML/MIN
B/F FLOW	12	ML/MIN
AUX FLOW	0	ML/MIN
OVEN TEMP	40	C
AMB TEMP	33	C
MAX GAIN	1000	
ANALYSIS TIME	300.0	SEC

PEAK REPORT

PK	COMPOUND NAME	AREA/CONC		R.T.
1	UNKNOWN	17.04	MVS	17.1
2	UNKNOWN	102.4	MVS	18.7
3	UNKNOWN	6.666	MVS	52.2
4	BENZENE	93.22	PPB	60.2
5	UNKNOWN	3.127	MVS	75.7
6	TOLUENE	99.60	PPB	120.8
7	UNKNOWN	6.254	MVS	222.0
8	ETHYLBENZENE	98.46	PPB	250.6
9	M,P-XYLENE	200.5	PPB	270.1
10	O-XYLENE	101.4	PPB	319.4

NOTES

JOE BYRD, JR.
WORCESTER ANGS
100 PPB BTEX

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APPENDIX C

FIELD NOTES, FIELD FORMS, AND LAND SURVEY PLATS

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Carl Ehlers #

WORCESTER AIR NATIONAL GUARD STATION

ADDENDUM SITE INVESTIGATION

April 3-7, 1995

FED-EX #

Phone Numbers:

OpTech 1-800-677-8072
John (H) (210) 698-0388
Matt (H) (210) 679-6247

ANGRC: (301) 836-8904 (Bill Lodder)
1-800-237-9744
(301) 836-8121 FAX

Barnes: (413) 568-9151 ext 710 John Richardson
(413) 572-1565 (FAX)

Worcester: (508) 799-6963 ext. 5529 Pete McGinnis
(508) 751-5210 (FAX)

NEI - 60 SEAVIEW BLVD. Port Washington
NY 11050-4618
(516) 625-5500

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Emergency Route to the Hospital.

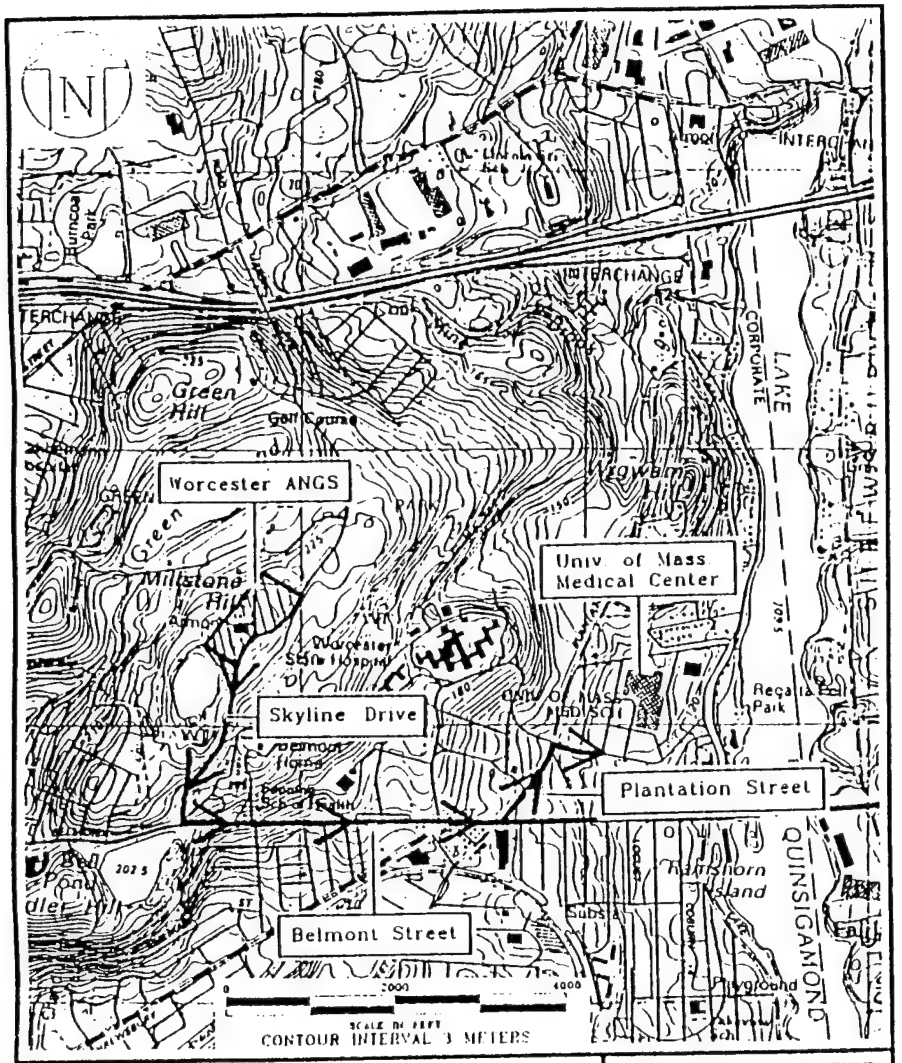

FIGURE 1A

ROUTE TO UNIV MASS HOSPITAL
Worcester Air National Guard Station
Massachusetts Air National Guard
Worcester, Massachusetts

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION

A - 3

(4)

Proposed Boring locations At the Station.

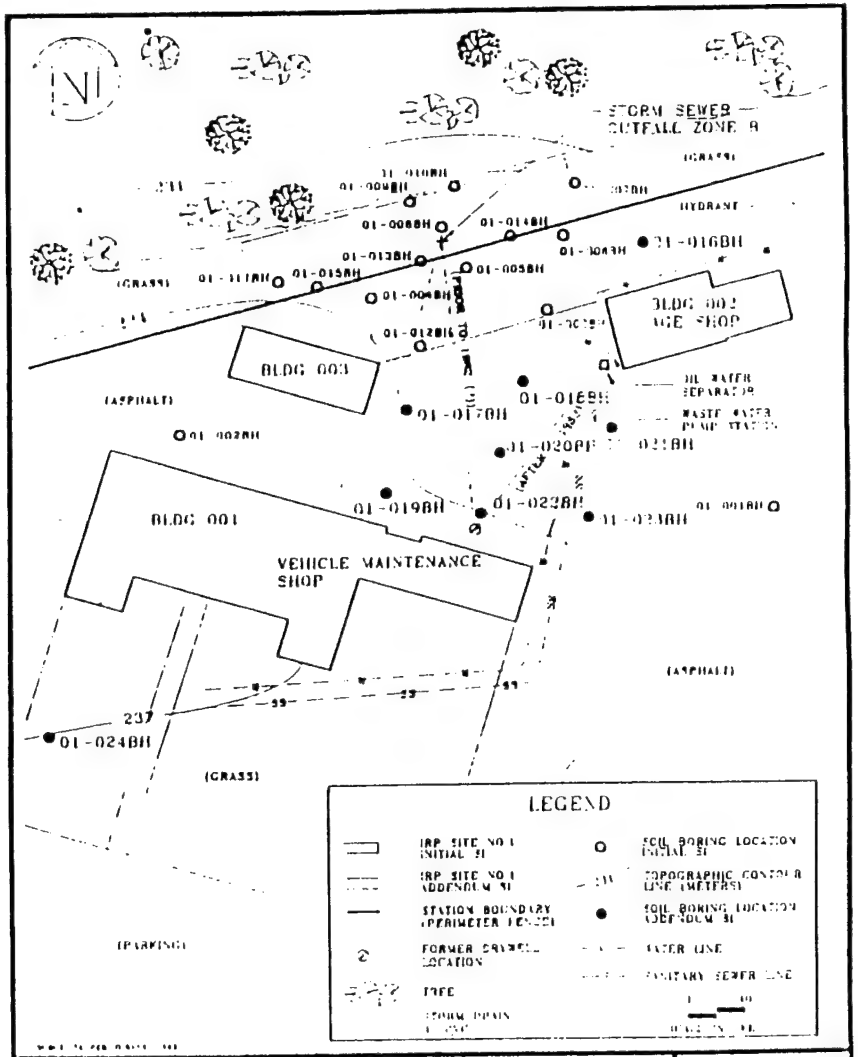

FIGURE 6-1

PROPOSED SOIL BORING LOCATIONS AT IRP SITE NO

13

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4/5/95 Cave Creek

0750 Arrive at Worcester ANGS

0800 Meet w/ Pete McGinnis, POC at Worcester ANGS. Re-introduce ourselves and introduce crews. Walk the site to orient everyone to everything. Look over old drilling locations look at new ASTs and spot underground utilities.

Meet MSG Cliff Huston at the AFE shop to see about decon areas and moving vehicles for drilling.

Secure our equipment sent up to the station. Preparing for daily activities.

0840 SAFETY BRIEFING

Earl Parker
Jon Williams } OpTech
Joe Byrd
Desty Greenway

Weather: Sunny and mild. Temp: 35° Hi: 50's. Sunny and Breezy out of the west. Should be a great day.

Discussed daily activities of locating and Approving Boring locations, equipment

Earl Eckert 4/3/95

checks and preparing for drilling tomorrow. Everything looks good so far.

0855 Call Bill Ladder at ANGRC and let him know we are on the ground and preparing for operations. Informed him of the Daily Status Reports he will be getting.

0910 Call OpTech and check in w/ Russell Cason.

0925 Earl, Destry, & Tom go out to stake locations for soil borings.
Joe Byrd checks equipment for field GC operations.

1030 Complete staking out boring locations. Go to GC Area to assist Joe Byrd in preparing the GC equipment.

1050 Find Mike McGinnis and walk the boring locations to insure all

4/3/95 Earl Eckert

locations are away from known or suspected subsurface objects or hazards. Obtained approval of all nine boring locations from Station representative.

1120 FED-EX arrives at the Station to deliver rental equipment.

1130 Depart Station to return to hotel to secure Ice Chests from analytical laboratory.

1150 Arrive at the hotel and secure the ice chests. Check the contents of the ice chests and insure all items are present. All bottles and forms were present.

1215 Depart Hotel for lunch. Drive by route to Hospital to see emergency route.

1345 Return from Lunch. Go to GC Area to check out rental equipment. Checking and calibrating PID and GC to check operations.

4/3/95

1400 Pete McGinnis has updated drawings of all new tank installations and wants to confirm locations of a few soil borings.

Pete McGinnis and myself go out and walk through and measure out all borings to insure all are in safe areas according to his drawings. All borings check out as fine.

1415 Go back to GC area where Joe Byrd continues to organize his GC area. Jon and Destry are calibrating the HNu Model PI 101 Photoionization Detector and the Photovac MicroTip PID. Check operation of the TMX 410 Multi-Gas Monitor.

1440 Go out w/ Destry and Jon and set up a decon station and decon 80 brass sleeves, 160 end caps and 40 ml VOA vials for soil sampling. Wash in Alconox wash, rinse with drinking

4/3/95

water, rinse w/ ASTM Type II de-ionized water and spray with Methanol. Allow to air dry completely. Then wrap 3 sleeves to a set in Aluminum foil. This preparation will allow all sleeves needed for our job to be done.

1620 Complete decorning and wraping all the equipment. Begin to break down decon area and secure the site for the night.

1645 All finished securing for the night. Departing the Station Going to store to purchase some final supplies required for sampling.

1730 Departing store after purchasing fire extinguisher and other Misc supplies. Going to Hotel

1805 Arrive at Hotel.

Spend approx. 3 hours preparing sampling kits for tomorrow's sampling.

4/3/95 [signature] 10.0 hrs

TUESDAY DAY 2 4 April 95

0750 Arrive at the Station. Drillers are here. Meet with Pete Newsham and Brian Millard of Technical Drilling Services. Walk the site w/ drillers. Pete was the driller on this project last time and we review OpTech procedures.

0810 SAFETY MEETING

Earl Parker, Jon Williams, Joe Byrd, Destry Greenway } OpTech
Pete Newsham, Brian - TDS

WEATHER: Cloudy, Breezy, Drizzle.
Cool, Breezy and drizzle today. Temp: 45°
Hi near 60, but winds out of W and drizzle expected all day.
Review site hazards, previous findings and daily drilling objectives, emergency procedures.

0825 Prepare to begin drilling. Drillers preparing decon area, Destry & Jon calibrate equipment and set up sample prep and decon table. Joe setup and calibrate field GC. Earl phones and FAXes daily progress reports from yesterdays activities. Decon at Bldg 003

4/4/95

0915 Drillers set up over 01-016 BH to begin drilling. Drill Acker AD-2 drill rig and 4¼ ID augers.

0930 Drillers begin to drill at 01-016 BH

01-016 BH Int 1
0.5 - 2.0' BLS

SPT	10	0.5 - 1.0' BLS
	18	1.0 - 1.5' BLS
	50	1.5 - 2.0' BLS

PID : 3.0 ppm. 100% Recovery
ATHA : 13.0 ppm

Fill. Very poorly sorted sand and coarse sand. Some cohesive silt. Very loose sand. Slightly moist. Brown to dark gray.

0950 01-016 BH Int 1 Duplicate
0.5 - 2.0' BLS
Same lithology. Sample obtained from the side of the hole.

1000 Drillers drilling at 01-016 BH to 5.0' BLS.
Dark Grey very loose sand and gravel fill. Very poorly sorted. Gravel and cobbles. Rounded to subrounded granite cobbles (fill). Loose, slightly moist. Slight odor (petroleum). PID reads up to 380 ppm at the hole. Breathing zone is non-detect.

1020 01-016 BH Interval 2
7.5'-9.0' BLS

SPT 23 7.5-8.0' BLS
28 8.0-8.5' BLS
31 8.5-9.0' BLS

PID: 230 ppm 65% Recovery.
ATHA: ~~SPT~~ EP: No soil for analysis.

Description: Brown to dark grey coarse sand and gravel. Medium to coarse sand, loose to slightly cohesive. Fill material. Slightly moist. Definite petroleum odor. Will drill to find bedrock to see if another sample needs to be collected.

1040 Total depth of hole is 10.0' BLS to hard bedrock. 7.5-9.0' BLS will be interval 2 sample.

Drillers moving off 01-016 BH and will move to 01-017 BH.

1100 Begin to drill at 01-017 BH

1105 01-017 BH Int 1
0.5-2.0' BLS

SPT: 19 0.5-1.0' BLS
30 1.0-1.5' BLS
44 1.5-2.0' BLS

PID: 6.2 PPM
ATHA: 14.7 ppm 90% Recovery

Description: Grey to brown fill material. Coarse to medium sand w/ submounded to angular granite cobbles. Black charcoal fill in upper part. loose to slightly cohesive. Slightly moist. No odor.

1120 01-017 BH INT 1 MS
0.5-2.0' BLS

SPT: 51 0.5-1.0' BLS
38 1.0-1.5' BLS
34 1.5-2.0' BLS

PID: 5.8 80% Recovery.
Description: Same as above. Fill material and gravel.

1140 01-017 BH Int 1 MSD
1.0-2.5' BLS

SPT: 40 1.0'-1.5' BLS
20 1.5'-2.0' BLS
16 2.0'-2.5' BLS

PID: 6.3 75% Recovery
Description: Same as above. Spoon was set at 1.0' BLS and driven in 18".

4/4/95 (15)

1150 01-017 BH INT 2

5.0 - 7.0' BLS

SPT : 5 5.5 - 6.0' BLS

6 6.0 - 6.5' BLS

15* 6.5 - 7.0' BLS (* to 50)

PID : 6.8 ppm

ATHA : 14.7 ppm 65% Recovery

DESCRIPTION : Brown to dark brown sand and silty sand. Coarse sand and gravel at top becomming silty sand and moist at the bedrock. Bedrock encountered at 7.0 and confirmed by HSA refusal and SPT.

1210 BREAK for Lunch.

1245 Moving to 01-018 BH.

1310 01-018 BH INT 1

0.5 - 2.0' BLS

SPT : 21 0.5 - 1.0' BLS

41 1.0 - 1.5' BLS

50 1.5 - 2.0' BLS

PID : 7.8 ppm 75% Recovery

ATHA : 14.7 ppm

4/4/95

1340 Description : Brown to dark brown and gray, loose coarse sand, sand and gravel. Rounded cobbles of Granite (Fill material). Some sand and silty sand, slightly cohesive and slightly moist. No odor.

1340 01-018 BH Int 2

5.0 - 6.0

SPT : 11 - 5.0 - 5.5' BLS

14* - 5.5 - 6.0' BLS (* Bedrock)

- - 6.0 - 7.5' BLS

PID : 13.5 ppm 80% Recovery

ATHA : 13.7 ppm

Description : Same as Interval 1 sample

1350 Complete drilling at 01-018 BH. Moving to 01-020 BH.

1410 Begin to drill at 01-020 BH.

01-020 BH Interval 1

0.5 - 2.0' BLS

SPT : 10 - 0.5 - 1.0 BLS

18 - - 1.0 - 1.5 BLS

24 - 1.5 - 2.0 BLS

PID : 5.8 ppm

ATHA : 11.3 ppm 80% Recovery

Field Equipment

Description: Brown to dark brown coarse sand and gravel. loose, slightly moist fill material. Many cobbles and large gravel w/ angular granite cobbles in bottom.

1415 Bedrock encountered when pushing spoon to 2.5' to 3.0' BGS.
Will not be able to obtain an interval 2 sample from this location due to depth to bedrock.
Moving to 01-021 BH once drillers steam clean augers.

1425 Begin to drill at 01-021 BH.

1430 01-021 BH Int 1
0.5 - 2.0' BGS
SPT: 18 * - 0.5-1.0' (* Bedrock)
- - 1.0-1.5' BGS
- - 1.5-2.0' BGS

PID : 7.3 PPM
ATHA : 11.7 PPM

Description: Brown to dark brown coarse sand fill with some gravel and ~~[illegible]~~ cobbles. Angular granite fragments to bedrock at only 1.0' BGS. Slightly moist, loose, no odor. Will not be able to collect an Interval 2 sample from this location due to depth to bedrock.

1445 Drillers complete drilling for the day. Moving over to decon area to steam clean augers and grout all the boreholes.
Earl, Destry and Jon complete decanning spoons and prepare to collect a Field Blank and an Equipment blank to be poured thru a California Style split spoon assembled with brass sleeves and sand catcher.

1500 Earl and Destry collect a Field Blank for all parameters on the analysis program. Designated as FIELD BLANK #1

1520 Drillers complete grouting holes. Rain and wind begin. Drillers departing the site for the day after securing equipment.

(14) Earl E Parks II

1530 Earl, Destry and Jon collect Equipment Blank. Designated as EQUIPMENT BLANK # 1.
Rain falling very hard. Thunder, Lightning and very strong winds present.

1600 Complete collecting Equipment Blank #1. Joe Byrd arrives after completing all field GC activities for the day. Assisting in the packaging of samples for the delivery to the lab. Preparing Chain of Custody forms for sample shipment.

1620 Earl completes CoC forms. Secure the CoC's in the ice chest and secure ice chests w/ ice, CoC's tape w/ strapping tape and secure with Custody Seals. Put ice chest in van for delivery to FED-EX.

1645 Begin to clean up area. Dump all Decon Water in Decon Water

Earl E Parks II

Drum in the steam cleaning area. Organize all equipment. All field GC and PID readings indicated isolated contamination in a few samples. All gloves and soiled sleeves were rinsed and discarded in the trash bags. Rinse water was placed in decon water drum All All trash was disposed in the general refuse container.

1720 All areas are secure and OpTech personnel depart the Station for the day. Go to FED-EX to ship samples. Samples taken to FED-EX station near Worcester Police Station and deposit samples to FED-EX.

1735 Return to Hotel. Call John Morris at OpTech and leave message of daily activities. No more field activities for the day.

4/4/95 Earl E Parks II (9.5 hrs)

WEDNESDAY Day 3 April 11

0800 Arrive at the Station. Drillers Arrive

0810 Safety Briefing
Earl Parker Desley Greenway } optech
Jon Williams Joe Byrd
Rick Newsham Brian Hilliard } TDS
Weather: Clear to Partly Cloudy, windy and very cold. Winds are 20-40 mph out of the west. Temp: mid 20's. Hi today is low 30's. Becoming windy and partly cloudy.
Review emergency procedures, site hazards and discuss daily drilling objectives. Review hazards associated with cold weather.

0825 Desley and Jon set up decon and sample prep area. Calibrate PID. Joe Byrd goes to set up field GC and calibrate. Drillers prepare rig for drilling.

0845 Earl phones ANGRC and FAXes Daily Progress Report to ANGRC-PM. Phone Optech for Daily Status.

0920 Begin to drill at 01-023BH.
01-023 BH Interval 1
0.5 - 2.0' BLS
SPT: 30 0.5-1.0' BLS
31* 1.0-1.5' BLS (* Bedrock)
– 1.5-2.0' BLS
PID: 2.0 ppm
ATHA: 6.1 PPM 100% Recovery
Description: Brown to dark brown coarse sand fill material with gravel fragments and granite cobbles. Loose, dry, with some silt and sandy silt fill. No odor.

Bedrock encountered at 1.5' BLS. No interval 2 sample will be obtained from this location. Moving to 01-022BH.

0950 Begin to drill at 01-022BH
01-022BH Int 1
0.5-2.0' BLS 85% Recovery.
SPT 28 – 0.5-1.0' BLS
47 – 1.0-1.5' BLS
62 – 1.5-2.0' BLS
PID: 5.8 ppm
ATHA: 4.6 ppm Recovery 80%

Description: Brown coarse sand and gravel fill material w/ dark brown silty sand. loose, slightly moist. Silty sand is hard, slightly cohesive and dry. No odor.

1010 01-022 BH INT 2
2.0-3.5' BLS
SPT: 50 2.0-2.5
— 2.5-3.0
— 3.0-3.5

Bedrock encountered at 2.5' BLS. No soil for interval 2 sample. Only one sample will be submitted from this boring.
Drillers moving to obtain a duplicate Interval 1 sample.

1015 01-022 BH Interval 1 Duplicate
0.5-2.0' BLS
PID: 4.6 ppm.
Description - Soil is same as before. Sample obtained 8" from original sample.

1025 Drillers moving to 01-019 BH.

1035 Drillers begin to drill at 01-019 BH.
01-019 BH, INT 1
SPT: 23 0.5-1.0' BLS
38 1.0-1.5' BLS
31 1.5-2.0' BLS
PID: 4.5 ppm 70% recovery
ATHA: 10.0 ppm
Description: Brown coarse sand fill material w/ some silty sand, gravel and granite cobble fill. loose to slightly cohesive, slightly moist. No odor. No sign of bedrock, will attempt another interval.

1050 01-019 BH, Int 2
2.0-3.5'
SPT: 20 - 2.0-2.5' BLS
21 2.5-3.0' BLS
23* 3.0-3.5' BLS (* Bedrock)
PID 4.5 ppm
ATHA: No soil available 60% Recovery
Description: Brown to dark brown coarse sand and sandy silt. loose to slightly cohesive, semi moist to moist at bottom. No odor
Bedrock at 3.3' BLS

Zac Estwick

1115 Drillers moving to 01-024 BH. Drillers have been grouting holes as they go. No augers have been used and no cuttings have been produced during drilling.

1120 Drillers begin drilling at 01-024 BH
01-024 BH Int/
0.5-2.0' BGS
SPT: 6 0.5-1.0' BGS
5 1.0-1.5' BGS
8* 1.5-2.0' BGS (* Bedrock)
PID : 2.4 ppm
ATMA: 1.9 ppm Recovery: 90 %
Description = Light brown sand and coarse sand fill material. Well sorted coarse sand with few gravel. Bottom is silty sand, dark brown and moist w/o odor. Bedrock at 2.0' BGS.

1140 Complete drilling at all boring locations. Drillers move to decon area to clean augers and drum decon water. Will store cuttings and decon water drums adjacent to Hazardous Materials

Zac Estwick

storage area on the northwest side of Bldg 07. AGE Shop.

1150 Break for lunch. Jon and Destry go to lunch. Joe Byrd continues to finish up with the field GC. Earl works on drilling summary for drillers.

1220 Earl and Pete Nawlan (Driller) go over final footages, spoon count, drum count, and decon/standby time for drillers. Destry and Jon return from lunch.

1230 Drillers depart Worcester ANGS after completing all their work.
Earl, Destry and Jon go out to begin to break down decon, sample prep and collect field and equipment blank.

1300 Begin to arrange bottle sets and label bottles for Equipment and Field blanks.

1320 Begin to collect Equipment Blank #2. Pour water supplied by lab thru a bottle to bottle transfer of water which was poured thru a California-style

(27)

Earl E Pulliam

sampler w/ no brass sleeves this time
Fill bottles for all analytical parameters

1350 Earl and Jon collect Field Blank #2.
Pour by a bottle to bottle transfer
for all analytical parameters.
Destry cleans final spoons and prepares
to be packed.

1410 Earl prepares Chain-of-Custody and
prepares samples for shipment.
Destry, Jon, and Joe begin general
cleaning and organizing in preparing
to pack supplies for shipment back
to San Antonio.

1600 Samples and all rental equipment is
packed and awaiting FED-Ex to
arrive at the site to pick up supplies.

Pete McGinnis request the debriefing
to take place tomorrow at 9:00 Am
We will comply with this request.
Continue to clean up site.

Earl E Pulliam

Destry and Jon dumped all decon/wash
water in decon water drum and drum
was secured and labeled with
contents name, date, (boring locations
w/ soil cuttings). Optech and phone
number. Took photographs of drums
and the site in general.

1630 FED-Ex arrives at the site and takes
control of samples. Ship all rental
equipment back also.
Walk the site once more to insure
All is clean and secure.

1640 Depart the Site for the day.

1800 Arrive at Hotel.

4/5/95 Earl E Pulliam (9 hrs)

THURSDAY MAY 4 6 APRIL 1995

0850 Arrive at Worcester ANGS.
Pete McGinnis is walking the site with the Surveyors. Go out and meet with Joe Tauper and Everett from Tauper Land Survey. Walk all site borings to show surveyor what needs to be located.

0915 Conduct outbriefing with Ltc. Joe Bellino, 212th EIS Commander with Pete McGinnis and Optech crew.

Introduce crew. Discuss purpose of the Addendum SI, discuss our plan. What we did. Discuss briefly field screening findings, field screening. What was discovered during drilling. Discussed IDW storage and holding and what to expect as to when the Draft Technical Memorandum will be available.

0950 Faxed Daily Progress Report to Bill Lockler on yesterdays activities and phoned him. Left message on his recording as to what was discovered during yesterdays activities

---

0955 Phoned Russ Cason and gave him final summary report on the Worcester ANGS activities.

1000 Joe and Jon walk the site one final time. Conduct final check prior to departure from the Station.

1030 Conduct final check out with Pete McGinnis. He is satisfied with all of our clean-up and demobilization activities. Check with surveyors and they are happy with all arrangements and have no questions.

1100 DEPART WORCESTER ANGS.
COMPLETED ADDENDUM SI

Joe Byrd, Jr.
Project Scientist
4100 NW Loop 410, #230
San Antonio, TX 78229
(210) 731-0000 1-800-677-8072

Worcester 1315-199
Pete McGinnis
50 Skyline Drive
Worcester ANGS
Worcester, MA 01605
(508) 799-6963 ext. 5529

FEDEX 1342-6486-1 (1-800-238-5355)
HAZCO 1-800-332-0435
AIR Products 1-800-224-2724 (7550q)

1-800-741-9000
0+# 2107310001019280 7834

ENVIRO. INSTRU. SERV.
1-800-532-7474

Burlington EX (210) 402-1212
531444410 DORIS

OPTECH
6900 ALAMO DOWNS PKWY # 120
SATX 78230
(210) 523-2020

HAMPTON Hotel
110 Summer St.

FRIDAY 31 MAR 95
0830 ~~0900~~ 12 Premob mtg.
EP, DG, JW, JB, SW, RC

Get Procedures for GC.

ALL Gas Chromatograph operating, CALIBRATION, and MAINTENANCE procedures ARE Listed in Appendix A At the ~~end~~ back of this field book. ALL References in the daily log ENTRIES ~~can be~~ that refer to GC. can be found in this Appendix.

TRAVEL DAY
Sunday 2 April 1995
(CST) 0630 leave home
↓
(EDT) 1748 At hotel

Tolls: 1.00 .50 1.80 = 3.30

10.3 hrs

3 APRIL 95

①

~~TRAVEL DAY~~

~~Sunday 2 APRIL 95~~

DAY 1 MONDAY

0738 Leave hotel

0[illegible] [illegible] BASE

Meet w/ P. McGinnis. WALK site

0839 Safety Meeting

JB, DG, EP, JW.

- Eye and ear moving vehicles
- Weather: Sunny, 50's

0845 Go to Mess hall to unpack GC STUFF. Air line is broken. TRY to fix.

1050 Go w/ EP et AL to walk w/ P. McGinnis to ensure that ALL proposed boring sites ARE clear of utilities.

1115 CALL EIS to check on Rental Cg. It should be here.

1130 FEDEX from EIS get here. NO GC ACCESSORIES.

1133 Leave BASE. Go to hotel.

1151 At hotel. CALL EIS

1156 EIS will check And let know They shipped (5) parcels And we only recieved (4).

1344 Back on base

1350 CALL EIS. No word on 5th package
FEDEX delivered package during lunch.
Set-up GC. Check All systems.

[redacted]

1519 All systems check out. Go held others decon brass sleeves & VOA Vials

1710 Leave base Goto STORE to get supplies.

1800 At hotel.

DAY 2

(3)

TUESDAY 4 APRIL 1995

0730 LEAVE FOR BASE
~~BREAKFAST~~ SB

0744 ON BASE
Set up GC. GC ID#: 00013B

0808 Safety meeting
- BRIAN, Driller, EP, SB, JW, DG.
- RAIN, Thunder/Lightning.
- NO eat/drink/smoke
- Eye wash, First Aid, Fire ext.

0820 Return to GC room (Mess Hall ((MH)), Continue GC set-up.

0900 CALL FEDEX for pickup.
ORHA59 → P.U. NUMBER.
Scheduled 4:00 - 5:30

0908 GC PARAMETER
- GAIN 1,000
- CARRIER GAS FLOW 12 µl/MIN
- Injection Vol. 100 µl
- GC OVEN Temp 40°C
- ANALYSIS Time 500 sec

BUILD 10 PPM, 1 PPM, & 100 ppb
BTEX STDS

SB

0939 100 PPB BTEX STD.

- Benzene 100 ppb
- Toluene 100 ppb
- E-Benzene 100 ppb
- m,p-Xylene 200 ppb
- o-Xylene 100 ppb

1001 1 PPM BTEX STD

- Benzene 1 ppm
- Toluene 1 ppm
- E-Benzene 1 ppm
- m,p-Xylene 2 ppm
- o-Xylene 1 ppm

1019 10 PPM BTEX STD

- Benzene 10 ppm
- Toluene 10 ppm
- E-Benzene 10 ppm
- m,p-Xylene 20 ppm
- o-Xylene 10 ppm

1037 AIR BLANK

- Benzene 2 ppb
- Toluene 1 ppb
- E-Benzene 3 ppb
- m,p-Xylene 7 ppb

1050 Go to drilling rig to get samples

1102 01-016 BH 0.5'-2.0' 10g

- Benzene 1 ppb
- Toluene 4 ppb
- E-Benzene 4 ppb
- mp-Xylene 8 ppb
- o-Xylene 3 ppb

1116 01-016 BH 7.5'-9.0 10g

- over 25 peaks. GC overload

1131 01-016 BH 7.5'-9.0' 10g Reslot 2X dilution

- over 25 peaks. GC overload

— Compare chromatograph with chromatograph of 10 PPM STD. None of the peaks are compatable.

1148 Go to rig to get more samples.

1158 100 ppb BTEX STD

		CAL
Benzene	78 ppb	100 ppb
Toluene	73 ppb	100 ppb
E-Benzene	70 ppb	100 ppb
m,p-Xylene	142 ppb	200 ppb
o-Xylene	58 ppb	100 ppb

1217 AIR BLANK
- m,p-Xylene 5 ppb

1229 01-017 BH 0.5'-2.0' 10g
- Benzene 4 ppb
- Toluene 1 ppb

1241 01-017 BH 5.5'-7.0' 10g
- Benzene 5 ppb
- Toluene 1 ppb
- E-Benzene 5 ppb
- m,p-Xylene 4 ppb

1256 Go out to get samples

1308 01-018 BH 0.5'-2.0' 10g
- ALL NON-DETECTS

1320 Go out to get samples.

1339 01-018 BH 5.0'-6.0' 10g
- Benzene 6 ppb
- Toluene 1 ppb

1352 Go out to get samples.

1414 01-020 BH 0.5'-2.0' 10g
- Toluene 1 ppb
- E-Benzene 2 ppb
- m,p-Xylene 10 ppb

4 APRIL 95

1427 100 PPB BTEX STD

			CAL	
Benzene	94	ppb	100	ppb
Toluene	93	ppb	100	ppb
E-Benzene	84	ppb	100	ppb
m,p-Xylene	167	ppb	200	ppb
o-Xylene	72	ppb	100	ppb

1442 AIR BLANK

- ALL NON-DETECTS

1502 01-020BH-DUP 0.5'-2.0' 10g

- Toluene 1 ppb
- m,p-Xylene 25 ppb

1515 01-021BH 0.5'-2.0' 10g

- Benzene 9 ppb
- Toluene 1 ppb

1527 100 PPB BTEX STD

			CAL	
Benzene	86	ppb		ppb
Toluene	77	ppb		ppb
E-Benzene	81	ppb		ppb
m,p-Xylene	161	ppb		ppb
O-Xylene	63	ppb		ppb

1540 SHUT DOWN GC.
AID w/ EQ. BK & breakdown
1652 LEAVE base
At FEDEX
1705 Leave FEDEX
At Hotel.
1716

9.8 hr

DAY 3

WEDNESDAY 5 APRIL 1995

0745 Leave hotel que Barbara
0801 ON BASE
TURN ON GC. Begin setup
0815 Go out for Safty Mtg.
0825 • JB, JW, EP, DG, Pete & BRIAN
- weather, windy & cold
Hi: 30°F wind 30mph
- Be careful of chills.
0830 Return to mess HALL to
continue setup.
0951 100 PPB BTEX STD
— GC PARAMETERS
• GAIN 1,000
• CARRIER GAS FLOW 12 ml/min
• Injection Vol 100 µl
• GC OVEN Temp 40°C
• Analysis Time 500 sec
• Set LIBRARY
1011 1 PPM BTEX STD
• Set LIBRARY
1027 10 PPM BTEX STD
• Set LIBRARY
1044 AIR BLANK
• Benzene 6 ppb

.... AIR BLANK (CONT.)

	• E-Benzene	7 ppb	
	• m,p-Xylene	12 ppb	
	• o-Xylene	7 ppb	
1057	01-022BH	0.5-2.0	10g
	• Benzene	4 ppb	
	• Toluene	9 ppb	
	• E-Benzene	9 ppb	
	• m,p-Xylene	56 ppb	
	• o-Xylene	28 ppb	
	→ 01-023BH	0.5-2.0	10g
1109	• Benzene	9 ppb	
	• Toluene	2 ppb	
	• E-Benzene	3 ppb	
	• m,p-Xylene	9 ppb	
	• o-Xylene	6 ppb	
1122	01-022 DUP	0.5-2.0	10g
	• Benzene	3 ppb	
	• Toluene	6 ppb	
	• E-Benzene	3 ppb	
	• m,p-Xylene	50 ppb	
	• o-Xylene	22 ppb	
1140	01-019BH	0.5-2.0	10g
	• Benzene	3 ppb	
	• Toluene	3 ppb	

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.... 01-019BH 0.5-2.0 10g (CONT)

- E-Benzene 2 ppb
- m,p-Xylene 10 ppb
- o-Xylene 9 ppb

1153 01-019BH 2.5-4.0 10g

- Benzene 4 ppb
- Toluene 1 ppb
- E-Benzene 1 ppb
- m,p-Xylene 3 ppb

1205 100 PPB BTEX STD

			CAL	
Benzene	92	ppb	100	ppb
Toluene	83	ppb	100	ppb
E-Benzene	78	ppb	100	ppb
m,p-Xylene	153	ppb	100	ppb
o-Xylene	76	ppb	100	ppb

1221 AIR BLANK

- Toluene 1 ppb
- E-Benzene 4 ppb
- m,p-Xylene 11 ppb
- o-Xylene 9 ppb

1236 01-024BH 0.5-2.0 10g

- Benzene 3 ppb
- Toluene 2 ppb

.... 01-024 BH (CON'T)

- E-Benzene 2
- m,p-Xylene 11
- o-Xylene 6

1251 100 PPB BTEX STD

Benzene	93	ppb		ppb
Toluene	100	ppb		ppb
E-Benzene	98	ppb		ppb
m,p-Xylene	201	ppb		ppb
o-Xylene	101	ppb		ppb

1307 CALL FEDEX for pickup of samples & Equipment. [ORH 199]

1312 CALL Air Products to pick up Air bottle.

1315 CALL Burlington Express to pick up equipment for shipment to San Antonio.

1320 Begin breaking down and packing all equipment for shipment.

1600 Done packing. Waiting on FEDEX.

1630 FEDEX arrives

1652 Leave base
1705 At hotel

J R Byrd Jr 9.4

THURSDAY 6 APRIL 95

0845 Leave for BASE
0900 At BASE
→ RAMADA
225 McClellan HWY
(617) 589-5250
0905 CALL RAMADA to check on check IN time
0916 Meet with BASE Commander for debriefing.
0945 DONE. Check site for LAST time
1000 AIR Products here to get AIR bottle.
WALK SITE
1100 DEPART.
Tolls: $0.50
1.10
1.60
1200 At RAMADA.

JB

8.0 ~~3.3~~ hrs
JB

TRAVEL DAY

(15)

EST
0830 leave hotel

↓

1630 HOME

9.0 hrs

GC SETUP PROCEDURE

Location Place the GC upwind from the drilling locations and any other nearby engine exhaust sources. The GC should also be within reach of a 110 VAC power source. Refer to Figure 1 for setting up the GC.

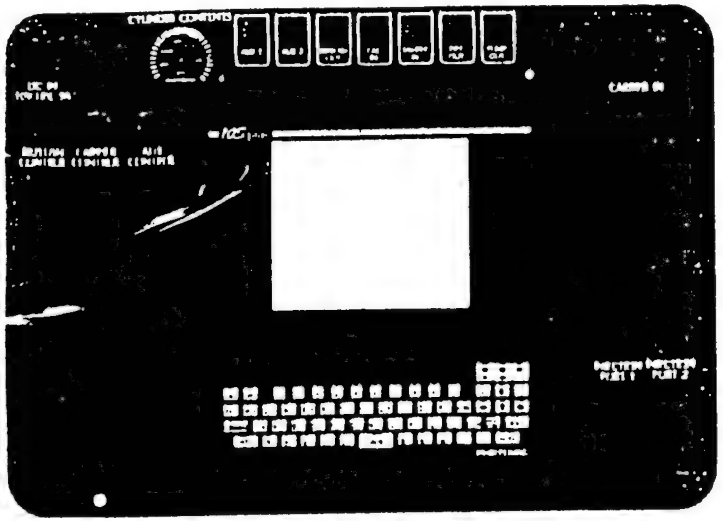


Figure 1 10S+ Top Panel.

Power & Software Loading Connect AC line power to the 10S+ GC at the DC IN port on the upper left corner of the GC, and then turn the unit on by pressing the ON button on the computer keyboard. The 10S+ SYSTEM FUNCTION screen will be showing, with a message that a RAM card is not present. At this time, the APPLICATIONS CARD (blue with red dots) should be inserted into the lower right side of the computer. In order to load the GC software which is used for headspace analyses. Using the LOAD command, load the file GC FUNCTION (see Figure 2).

While still in the 10S+ SYSTEM FUNCTION, use the TIME/SETUP command to set the correct time and date, as shown in Figure 3. After this is correctly set, switch to the GC operation software by pressing the FCN button. The screen which appears is

referred to as the results screen, and is titled 10S+ GC FUNCTION. This screen shows current GC operation, and the chromatogram and detected peaks of the last analysis (see Figure 4.

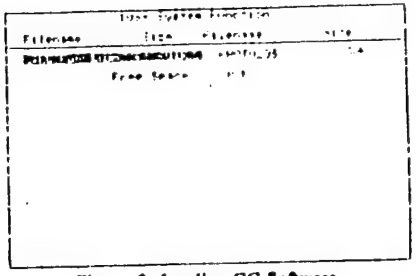


Figure 2 Loading GC Software.

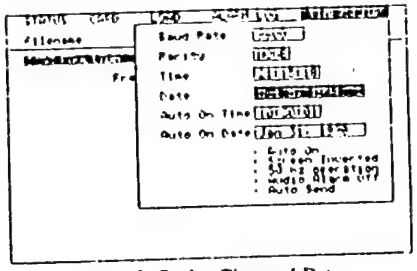


Figure 3 Setting Time and Date.

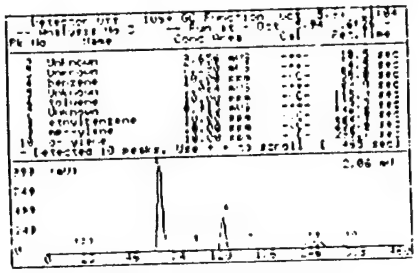


Figure 4 10S+ GC Function.

APPENDIX H

STANDARD OPERATING PROCEDURES FOR PHOTOVAC 10S+ GAS CHROMATOGRAPH (FIELD SCREENING FOR NATIONAL GUARD FIELD WORK)

OPERATIONAL TECHNOLOGIES CORPORATION
ENVIRONMENTAL SERVICES DIVISION

OCTOBER 7, 1994

SUMMARY OF GC ANALYSIS PROCEDURE

Calibration Prepare 100 ppb, 1-ppm, and 10-ppm working standards fresh each day according to the GC CALIBRATION section. Create a 3-point calibration with these three standards, according to the GC CALIBRATION and GC ANALYSIS sections. Be sure that correct standard concentration values are used for peaks representing more than one component, as recognized by the GC (e.g., 2 ppm for m,p-xylene peak).

Sample Analysis Prepare and analyze headspace from soil and water samples according to SOIL AND WATER SAMPLE PREPARATION. All samples will be consistently warmed in the water bath before headspace injection. If sample results are significantly greater than the 10 ppm standard (e.g., greater than 60 ppm for total BTEX), then the sample must be reanalyzed with dilution as needed to bring it into range of the standard used. Diluted samples are achieved either by injecting smaller gas volumes onto the GC or using less soil in preparing the headspace sample, as detailed in the GC ANALYSIS section. After analysis of every five samples (or after a lapse in GC operation of more than 2 hours), a QA/QC check must be performed, consisting of a calibration check and an air blank check.

QA/QC Check Perform a calibration check by analyzing an appropriate working standard again. If, after shooting a working standard, correct identification of all standard compounds and concentrations within the range of 80-120% of the specified calibration concentration is not achieved, then restore the standard compounds, peak numbers, and calibration concentrations in the library as detailed in GC CALIBRATION CHECK.

Perform an air blank check by injecting an open air sample into the GC. If the results are not "clean" (close to or less than 10 ppb for all analytes), then perform more stringent decontamination procedures on the syringe used for sample injection or evaluate whether there are significant volatiles present in the ambient air. Once a successful QA/QC check has been completed, proceed with analysis of samples again.

Data Reporting All injections, including successful and unsuccessful QA/QC checks, must be reported on the FIELD GC DATA SUMMARY. Changes in flowrate and other GC operating parameters must also be recorded as analyses progress. All concentrations reported on the SUMMARY should be recorded with no more than three significant digits, with the last digit reported being the ppb singles digit (e.g., record 5,673 ppb as 5,670 ppb, and record 24.856 ppb as 25 ppb).

GC PROGRAMMING FOR ANALYSIS

1 Before carrying out analyses, certain operating parameters must be set (or their values checked) for proper and efficient operation of the GC to occur. The important parameters, their suggested values, and the command under which they are accessed are given in Table 1.

Table 1
GC Operating Parameter Values

Command	Parameter	Value
STATUS	Normalized Chromatogram	Yes (checked)
METHOD/SETUP	Detector Flow	10-15 mL/min (notation only)
METHOD/SETUP	B/F Flow	10-15 mL/min (notation only)
METHOD/SETUP	Oven Set	40-50° C
METHOD/SETUP	Gain	1,000
METHOD	Loop or Syringe	Syringe (checked)
METHOD/TIMING	Inject Volume	0.100 mL
METHOD/TIMING	Analysis Time	400-600 secs
METHOD/INTEGRATION METHOD	Integration	Auto (checked)
NOTES	Notepad Entry	Enter standard information, such as GC operator name, ANG Base/Station, and sample ID.

2 Use the commands specified in Table 1 to set the required values, including gain, syringe injection, injection volume, analysis time, and integration method. If auto integration is selected, the window and minimum area parameters do not need to be set. If manual integration is selected, enter a window value of 10% under METHOD/INTEGRATION METHOD. When the GAIN is set to 1000 and the Normalized Chromatogram is selected, the computer will automatically select the best gain value for the current chromatogram.

3 User supplied data can be entered for record purposes using the NOTES command. This will be used to keep track of samples on ANG field projects. Simply enter the desired information using the keyboard on the computer. The following information should be entered:

< name of GC operator >
< name of National Guard Base or Station >
< monitoring well or borehole designation, depth of sample interval (feet) >

The last line of information will be changed appropriately for each soil or water sample analyzed. These data lines must be filled out correctly for each sample and standard analyzed for record purposes. As shown in Figure 7, there is a large area available for further information in this NOTEPAD.

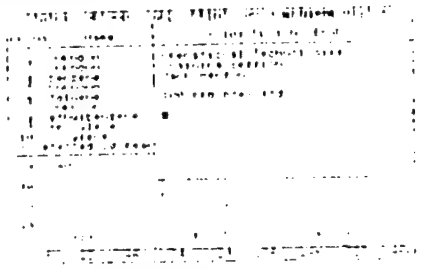


Figure 7 GC Notepad.

GC ANALYSIS OF SAMPLES OR STANDARDS

1 Headspace from samples or working standards are analyzed on the GC to determine the presence and concentration of BTEX or other compounds of interest. Before injecting headspace from a sample or working standard into the GC, the working standard VOA vial must be warmed to room temperature. This will be accomplished by placing the VOA vial containing the standard or sample in the water bath for 15 minutes prior to vapor sample injection. The temperature of the water in this bath will be kept constant, at anywhere from 25° to 30° C, using the small aquarium heater and a thermometer.

2 To perform a GC analysis or GC run, push RUN AUTO and select SAMPLE. Take a 100-μL or 500-μL sample syringe and draw in 100 μL of clean air. Insert the needle through the septa in the vial and repeatedly purge and draw 100 μL (0.100 mL) of headspace into the syringe 10-15 times. Then draw exactly 100 μL of headspace into the syringe.

3 Push ENTER on the GC. Now quickly extract the syringe from the working standard vial and insert it into the INJECTION PORT 1. Let the needle go down until you feel the resistance of the septa in the injection port. Once the alarm begins to sound, push the syringe through the septa and all the way down into the injection port. IMMEDIATELY after the alarm goes off, QUICKLY inject the contents of the syringe into the GC and pull the syringe out of the injection port.

4 The GC will now analyze the sample or standard. The duration of the analysis will be that time, in seconds, which was entered for ANALYSIS TIME during the GC programming steps. Peaks will appear representing the compounds in the sample. To stop the run before it is complete (e.g., if an obvious error has been made), press the RUN AUTO button. After a run is complete, the compounds detected and their concentrations will be printed in a table format above the chromatogram on the video screen.

Printer Connect the dot matrix printer to the GC using the serial output cable. The cable connects to the GC at the upper right corner of the video screen. Connect AC power to the printer, turn it on and be sure it is on-line. Communication between the GC and the printer can be tested by using the PRINT SCRN key to print out a copy of the current video screen display.

Gas Cylinder The carrier gas for the GC is provided by continuous supply through direct connection to the air cylinder. The connection of gas to the GC follows this procedure (see pages 4-6 to 4-7):

DIRECT CONNECTION TO AIR CYLINDER: Attach regulator with two pressure gauges to the air cylinder, using teflon tape on the cylinder adapter threads to insure a good seal. Attach the quick connect coupling to the CARRIER IN port on the GC. Open the valve on the cylinder several full turns, and then adjust the large valve on the regulator so that the second pressure gauge reads 40 psi. Open the small on/off valve on the regulator to supply air to the GC.

Gas Flow The carrier gas flowrate through the GC column affects the retention time of peaks and thus the correct chemical identification of those peaks. Therefore, the accurate setting and close monitoring of the flowrate is of utmost importance. Once set, the flowrate must never be altered during a GC run. If the flowrate is altered in the midst of a series of analyses, then a recalibration must be performed to correctly reset the retention times of the components in the standard.

The carrier gas flowrate is adjusted with the use of a flowmeter provided with the instrument. The flowmeter may be either a digital bubble flowmeter (requires a dilute soap solution in the pipette bulb) or dual rotameters. Use the following procedure (refer to page 4-7):

With the dual rotameter, attach the left flowmeter to the DET OUT and the right flowmeter to the BK FLUSH OUT using the 1/8" Swagelok fittings and lines provided (see Figure 1 for location of fittings). If the digital bubble flowmeter is used, then switching the line between DET OUT and BK FLUSH OUT is required. With gas flowing to the GC, observe the flowrate readings on both of these lines. Both of these flowrates must be adjusted to the same value, in the range of 10-15 mL/min. The adjustment is made using two valves, the CARRIER CONTROL and the BK FLUSH CONTROL. These valves interact with each other, so adjustments will have to be made iteratively. Once the flowrates are set, they should not have to be changed. The DET OUT flowrates should be checked regularly during operation. After checking the flowrates, be sure the sample loop connector is reattached between the BK FLUSH OUT and SAMPLE IN ports. Completely invalid chromatograms will be obtained if this loop connector is not in place.

PID Lamp & GC Oven The final step in setup of the 10S+ is to turn on the PID lamp and the oven. NEVER TURN ON THE PID LAMP BEFORE BEING SURE AIR IS FLOWING THROUGH THE UNIT. Turn on the lamp and oven by selecting and checking GC DETECTOR ON under the STATUS command (see Figure 5). Once this is done, lamp status will change

to STARTUP AND TUNING for several minutes. If the lamp does not come on after approximately 10 minutes, then it may be overheating. Turn the whole unit off, allow to cool for 15-20 minutes, and then turn it on and try again. Once the lamp is tuned and ready, successful gas chromatograms will be obtained only if OFFSET LEVEL is less than 100.0 mV and DETECTOR VOLTAGE is greater than 300 V (under STATUS command).

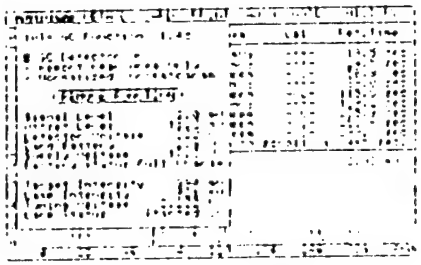


Figure 5 PID Lamp Status.

Selecting GC DETECTOR ON under the STATUS command also turns on the GC oven. The oven temperature is set by selecting the OVEN SET parameter (see Figure 6) under the METHOD/SETUP commands and entering an appropriate temperature (see page 4-2). The difference between the AMB TEMP and the oven temperature setting can be no greater than 25 °C. 40 °C is a suitable oven temperature to select, as long as the ambient temperature is not below 15 °C (59 °F). It will take about 20 minutes to insure the oven is at constant temperature. The GC oven warmup can be monitored by viewing the OVEN TEMP versus OVEN SET values under the METHOD/SETUP command.

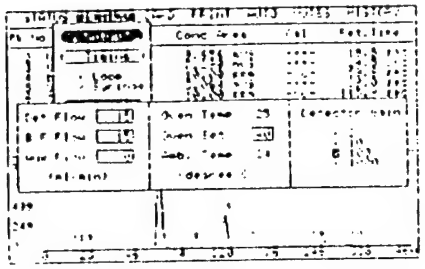
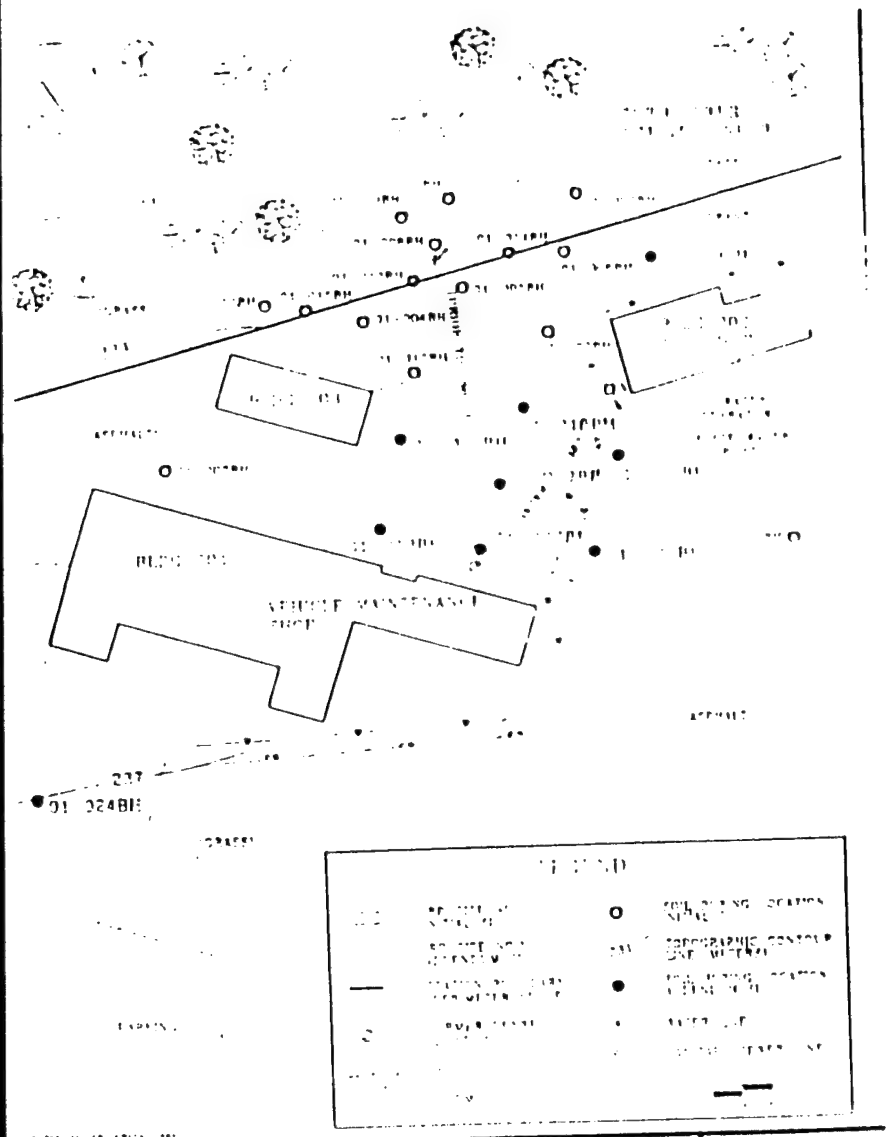
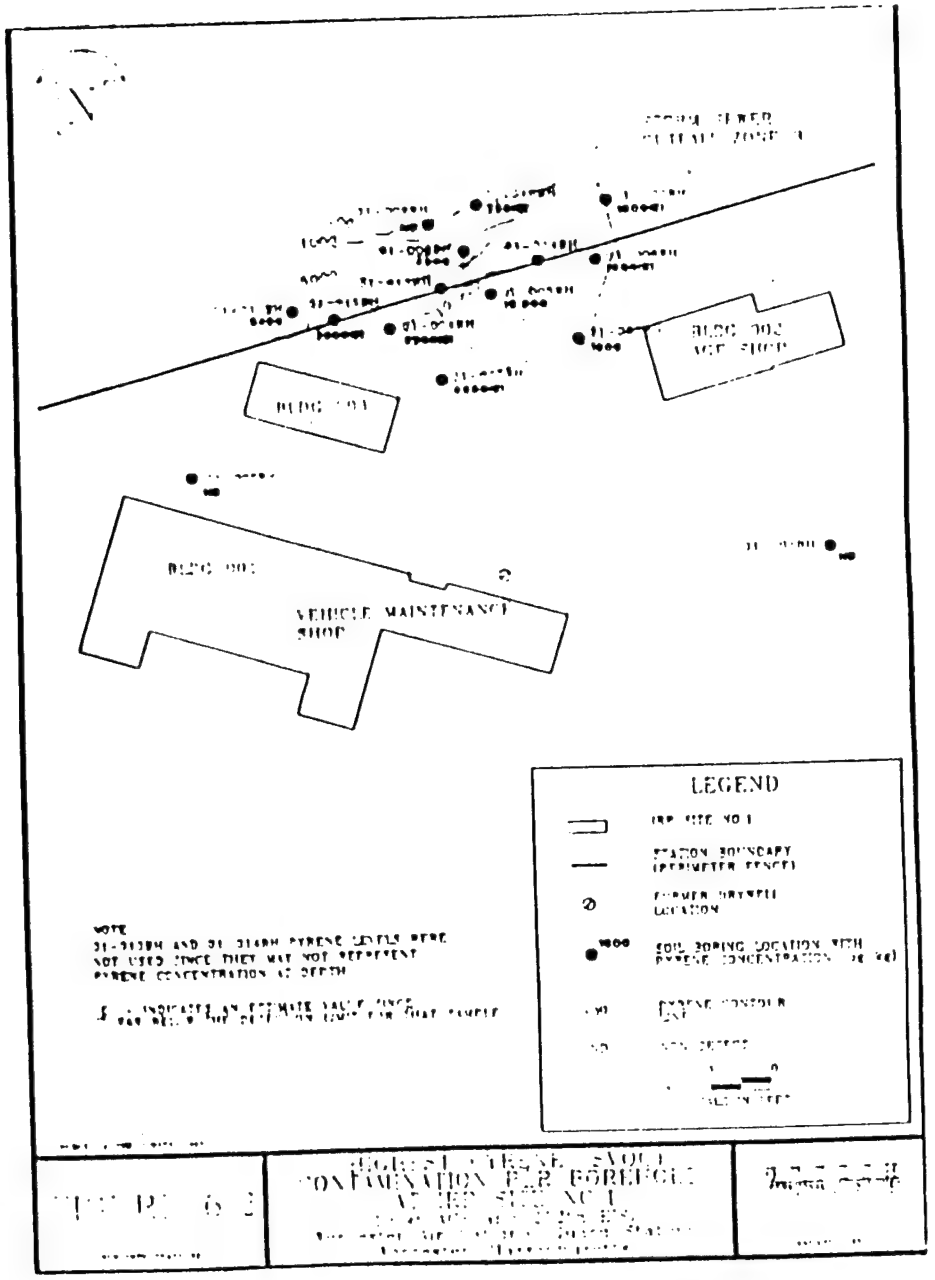
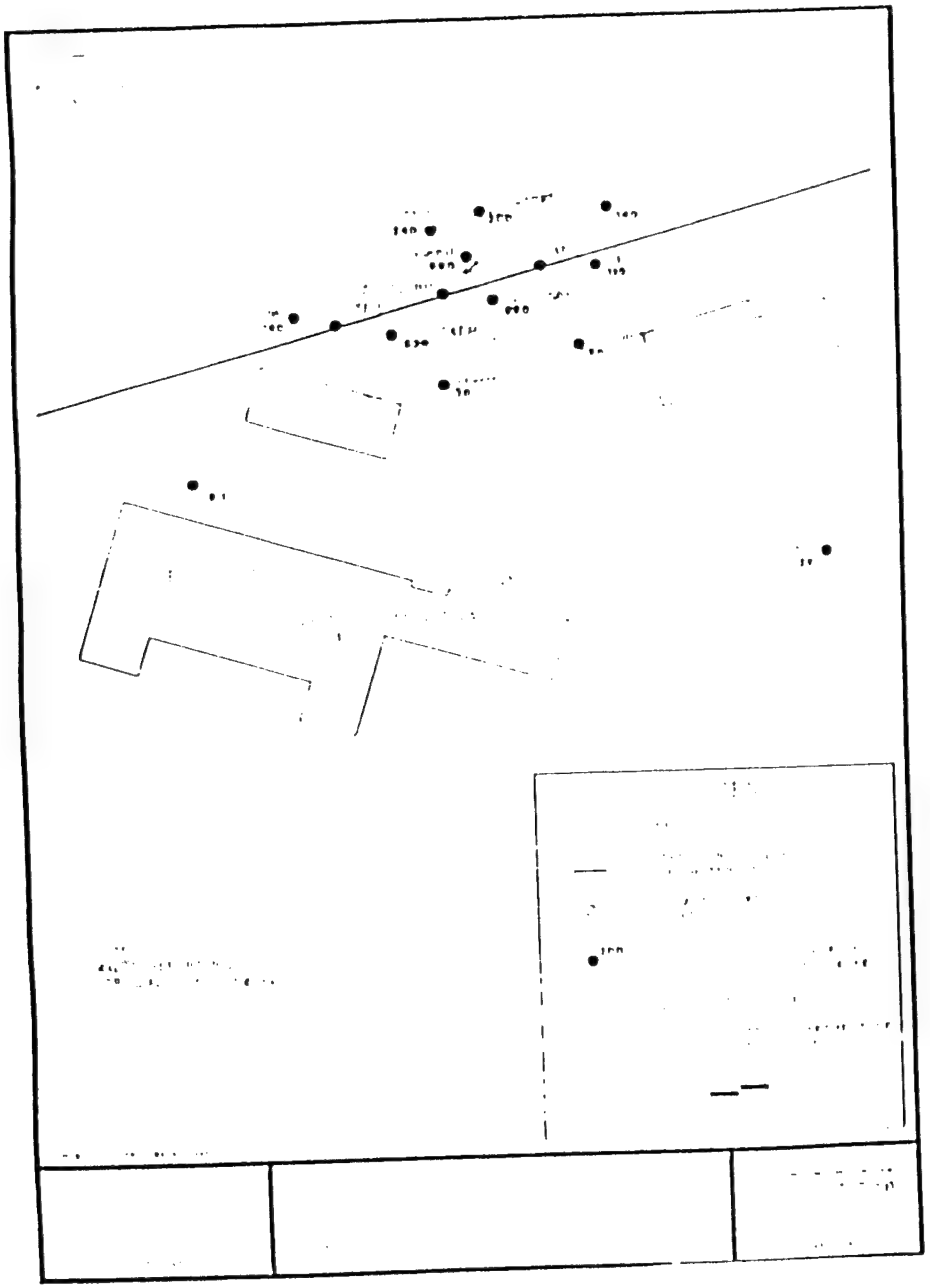
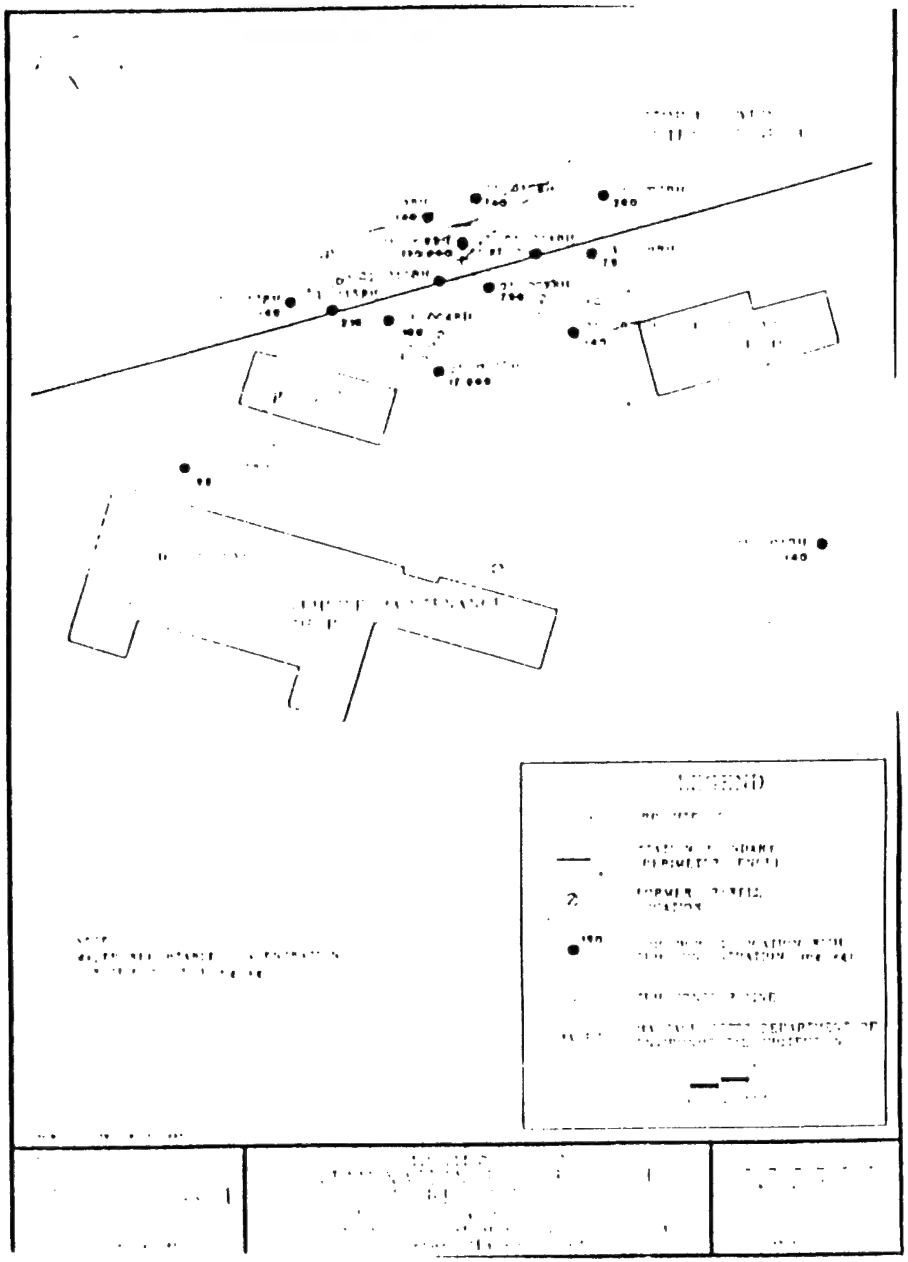


Figure 6 Setting GC Oven.


VEHICLE MAINTENANCE SHOP
237
01 324BH


BLDG 302
VEHICLE MAINTENANCE SHOP
LEGEND
NOTE
01-313BH AND 01-314BH PYRENE LEVELS WERE NOT USED SINCE THEY MAY NOT REPRESENT PYRENE CONCENTRATION AT DEPTH




LEGEND

established as follows: (a) analyze standards containing each analyte separately, and compare retention times to those obtained for the BTEX standard, (b) compare the order of analytes established in (a) to the order (as given by relative retention times) given in Table 3.

Table 3
Characteristic Retention Times

Compound	Retention Times (Normalized to Benzene)			
	Ambient 20° C	30° C	40° C	50° C
Vinyl Chloride	0.288	0.306	0.361	0.413
Freon 11	0.365	0.379	0.428	0.448
Methylene Chloride	0.475	0.489	0.539	0.585
trans-1,2-Dichloroethylene	0.517	0.529	0.563	0.580
1,1-Dichloroethane	0.550	0.557	0.611	0.669
Chloroform	0.715	0.720	0.742	0.752
1,2-Dichloroethane	0.840	0.851	0.868	0.872
1,1,1-Trichloroethane	0.948	0.950	0.959	1.000
Benzene	1.000	1.000	1.000	1.000
Carbon Tetrachloride	1.095	1.050	1.048	1.086
1,2-Dichloropropane	1.266	1.254	1.214	1.192
Trichloroethylene	1.413	1.396	1.342	1.361
2-Chloroethyl Vinyl Ether	1.667	1.644	1.551	1.539
1,1,2-Trichloroethane	2.293	2.211	1.976	1.860
Toluene	2.693	2.621	2.358	2.339
Tetrachloroethylene	3.985	3.853	3.314	3.272
Chlorobenzene	5.153	4.962	4.148	4.076
Ethyl Benzene	6.223	5.985	4.882	4.743
Bromoform	6.282	5.261	4.713	4.351
m-xylene	6.767	6.490	5.247	5.071
o-xylene	8.145	7.826	6.234	5.979
1,1,2,2-Tetrachloroethane	8.311	7.190	5.943	5.345

4. The ANALYSIS TIME, DRV3, and DRV4 times can be adjusted to obtain a suitable chromatogram of the working standard, if one like that in Figure 8 is not initially obtained. If the chromatogram does not show any of the last peaks (xylenes or ethylbenzene), the following adjustments should be made in order. After each adjustment, reinject a headspace sample of the working standard and watch for the latter peaks to appear on the new chromatogram.

   Adjustment I. Increase ANALYSIS TIME, to 600 or 700 seconds. As an alternative, carefully adjust the carrier gas flowrate upwards to 15 mL/min.

   Adjustment II. Adjust the DRV3 and DRV4 off times (under METHOD/TIMING/CONFIG command) to the formula 5 + A/6 (A represents the analysis time)

5. The 3-point calibration is initially created by analyzing the three standards in succession, starting with the lowest concentration, and storing the calibration information (using METHOD/LIBRARY/STORE) for each analyte after each chromatogram is obtained. The process is performed as follows: select METHOD/LIBRARY, select STORE, press ENTER for each compound you wish to store, then fill in the appropriate entries in the LIBRARY STORE WINDOW (peak #, compound name, and Conc.) for each compound (see Figure 9). THIS PROCESS CAN BE SUCCESSFULLY COMPLETED ONLY AFTER THE CHROMATOGRAPHIC ANALYSIS OF A WORKING STANDARD APPEARS IN THE RESULTS WINDOW. The 100-ppb standard is entered as Conc.1 (as 0.1 ppm), the 1.0-ppm standard as Conc. 2, and the 10-ppm standard as Conc. 3, as each standard is analyzed. Also, Alarm 1 and 2 values should be set to 50 ppm. After the correct concentration is entered for the current analysis, press ENTER. At this time, the GC calculates and stores the correct response factor and retention time for that peak. Repeat this process for each peak or analyte in the current standard, then move on to the analysis and library storing of the next higher standard. Figure 9 shows the library information for benzene after all calibrations are complete while Figure 10 shows the 3-point calibration which has been created.

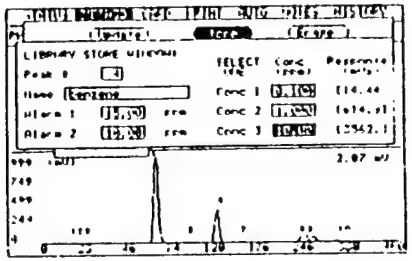


Figure 9 Library Store Window.

After all compound peak numbers and standard concentrations have been entered in the library, select METHOD and REINTEGRATE to reanalyze the last chromatogram and set all compounds to the specified concentrations. Finally, to obtain a hard copy, print out the standard chromatogram by selecting the PRINT/ANALYSIS command.

GC CALIBRATION CHECK

1. The calibration must be checked after analysis of every five samples. Only one of the three standards is used to check the calibration, namely that standard whose nominal concentration is closest to but greater than the concentrations of recent sample results (see ranges shown on calibration curve of Figure 10). For example, if most sample results are running around 300 to 700 ppb, then the 1-ppm standard (medium range) would be used for the calibration check.

2. A calibration check includes performing a repeated analysis of the chosen working standard headspace and reviewing the results printed out. If the compounds are not correctly identified and/or if the concentrations are not close to the nominal standard concentration (80-120% of

5 During a GC analysis, information identifying the sample should be entered in the notes. This is done by simply typing information in the screen using the NOTES command. When an analysis is complete, be sure to always print out a hard copy of it for project records by using the PRINT/ANALYSIS command. If any keyboard keys are hit during the time that the Analysis Report is printing, the printer is stopped, and the process will have to be started over again.

6 One method for dilution of samples for analysis is to inject a smaller volume of gas onto the GC column. For example, if the standard injection volume is 100 µL, then the injection of only 20 µL on sample headspace represents a dilution of 1 to 5. A second method of dilution is to use a mass of soil less than ten grams in preparation of the headspace sample. Thus, using a 1 gram sample would represent a dilution of 1 to 10.

7 The 500 µL syringe is decontaminated after each sample and standard injection by removing the plunger and putting the syringe barrel onto the plastic hose coming from the tee of the air supply line. Slightly open the valve on the tee line to allow air to strip BTEX and other compounds out of the syringe barrel for several minutes.

8 The FIELD GC DATA SUMMARY form (attached to this SOP) should be used to keep track of sampling activities and results in the field. For each injection (all samples, standards, and air blanks), the following information should be entered on the form:

- The depth of the soil sample in feet, or appropriate identification of the injection
- GC results (concentrations) of all individual analytes and of total BTEX (ppb). All concentrations should be reported in ppb, and with no more than three significant digits (last digit reported is single ppb digit)
- Actual weight of the soil determined by difference (approximately 10 grams)
- Any dilution of the sample required for analysis

Additionally, important GC operating parameters should be recorded on the form, both initial values used and any changes made during analyses, including:

- Temperature of GC oven
- Analysis time and gain settings
- Carrier gas flowrate
- Injection volume

Finally, once the entire 3 point calibration has been initially established for the day, the response factor values (under LIBRARY STORE WINDOW (see Figure 9)) and retention times (under METHOD/LIBRARY) for each analyte should be recorded in the bottom table of the Field GC Summary Data.

GC CALIBRATION WITH HEADSPACE STANDARDS

1 Daily working standards are prepared in a clean 40 ml glass VOA vial with teflon septa following the formula below:

$$C = \frac{SV}{WV} \times SC$$

Where:

C = Working standard concentration (ppm);
SV = Volume of stock solution (in microliters);
WV = Volume of deionized water (in microliters) = 10,000 µL typical (10 mL); and
SC = Stock solution concentration (ppm)

Three standards will be prepared and used each day (0.1 (100 ppb), 1.0 and 10.0 ppm standards) to create a 3 point calibration. A standard is prepared by putting 10 mL of DI water in a 40 mL VOA vial, and then adding the required amount of concentrated standard from the stock solution. Preparation of the 100 ppb standard is performed by taking liquid (not headspace) from the 1 ppm calibration standard and diluting it with 10 mL of water in a second 40 mL VOA vial. Table 2 outlines the volumes and final concentrations for these three standards (as calculated by the above formula).

Table 2
Working Standards Preparation

Working Standard Concentration	Stock Solution	Volume Taken from Stock
10 ppm	2000 ppm stock solution	50 µL
1 ppm	2000 ppm stock solution	5 µL
100 ppb	1 ppm working standard	1000 µL (1.0 mL)

Always use the appropriate syringe for dispensing very small volumes accurately (e.g., use 500-µL syringe to dispense 500 µL; use 10-µL syringe to dispense 5 µL or less). Shake the vial vigorously to mix after adding all components. **Both the stock solution and working standards must always be stored inverted in a refrigerator or an ice chest. New working standards MUST be made fresh daily.**

If other components are to be analyzed in addition to BTEX (such as trichloroethylene), then the 10- or 1-ppm standards are prepared by adding the specified volume (50 or 5 µL) from each separate stock solution. **Never mix any separate 2000-ppm stock solutions directly together.**

2 Analyze standards as described in the GC ANALYSIS section. An example chromatogram of a BTEX working standard is shown in Figure 8, including typical peaks for all of the components. Note that m,p-xylene is actually two components represented by one peak. If this is a 1 ppm standard, then this particular peak represents 2 ppm of those components.

3 If additional analytes (trichloroethylene, etc.) are being employed, the peaks are identified amongst the recognizable BTEX peaks and the order of analytes on the chromatogram

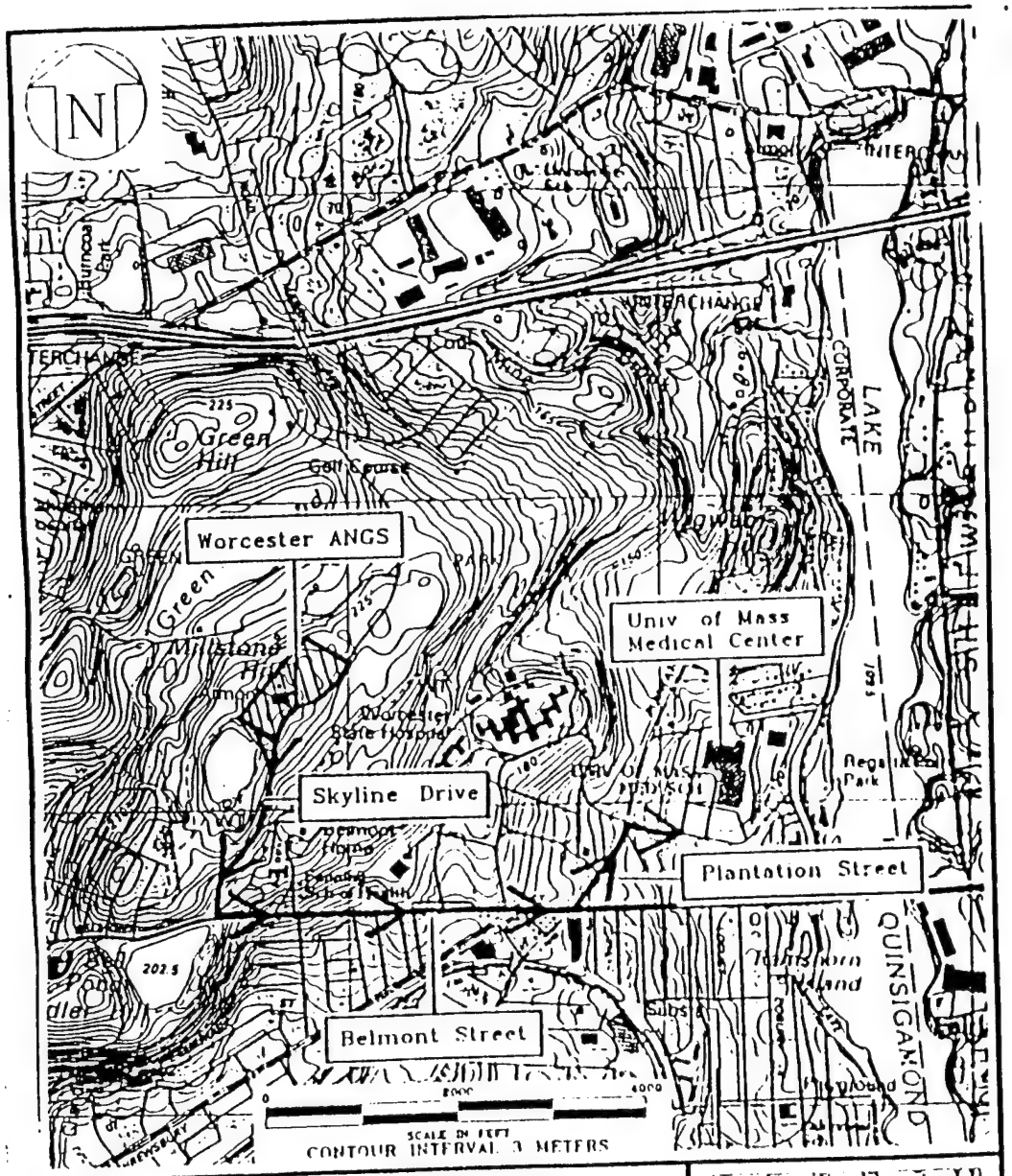


FIGURE 1A

ROUTE TO UNIV MASS HOSPITAL
Worcester Air National Guard Station
Massachusetts Air National Guard
Worcester, Massachusetts

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION

OPTECH Operational Technologies

HSM580.1A

Operational Technologies Corporation

OpTech SITE SPECIFIC HEALTH AND SAFETY PLANS
Site Health and Safety Briefings Form

Job Name: _____ Project No. _____
Date: _____ Start Time: _____ Completed: _____
Site Location: _____
Type of Work (General): _____

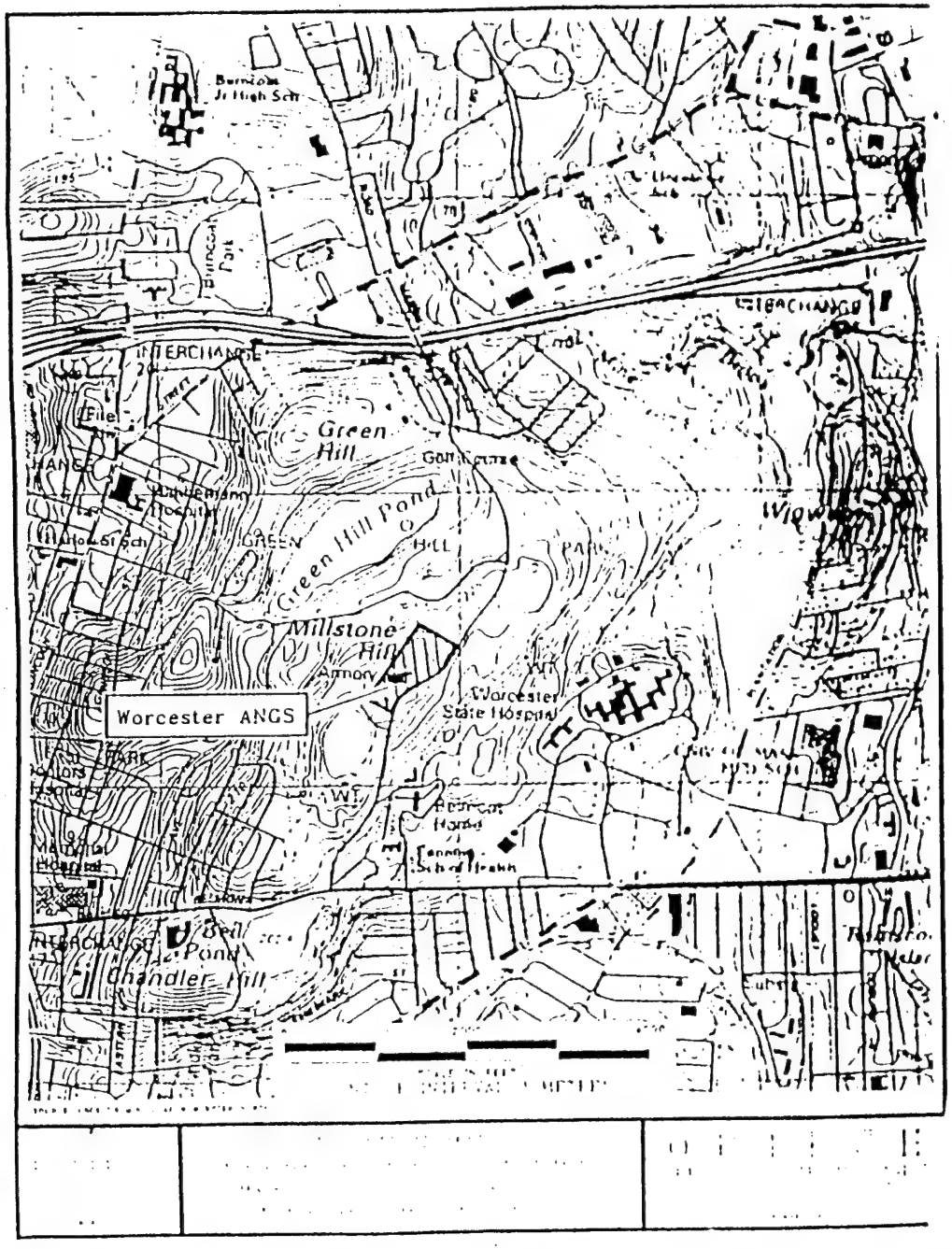
SITE SAFETY ISSUES

Tasks (This Shift/Day): _____
Protective Equipment/Clothing: _____
Chemical Hazards: _____
Physical Hazards: _____
Control Methods: _____
Special Equipment/Techniques: _____
Nearest Telephone: _____
Hospital Name/Address: _____
Expected Weather: _____
Special Topics (Incidents, actions taken, etc.): _____

ATTENDEES

PRINT NAME	SIGNATURE

September 1, 199



EMERGENCY CONTACTS AND AIR MONITORING ACTION LEVELS

EMERGENCY CONTACTS

In the event of any situation or unplanned occurrence requiring assistance, the appropria contact(s) will be made from the list below. For emergency situations, contact will first be mad with the Site Manager (SM), who will notify emergency personnel, and then contact th appropriate response teams. This emergency contacts list must be kept in an easily accessib location at the site.

Worcester Air National Guard Station Contingency Contacts

Contact	Phone Number
Lt Col Joe Bellino	508/799-6965
Worcester Fire Dept	911
Worcester Police Dept	911
Massachusetts Electric Co	508/791-8511

Medical Emergency

Contact	Phone Number
Hospital - University of Mass Medical Center	508/856-3511
Ambulance Service	911

Route to Hospital - From the main gate of the station, turn right (south) on Skyline Drive, approximately 0.5 of a mile, then turn left (east) on Belmont Street. Go approximately 0.8 a mile to the second set of lights, and turn left (north) on Plantation Street. Go approximat 0.2 of a mile, the Hospital entrance is on the right, follow the signs to the EMERGENC ROOM.

Travel time from site - 5-10 minutes. Map to hospital on following page.

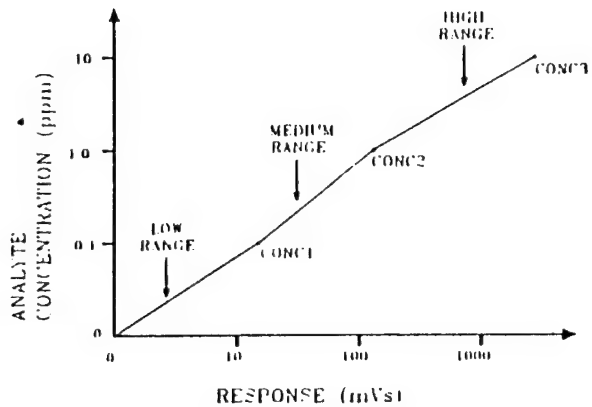


Figure 10 3-Point Calibration.

specified value), then a recalibration is necessary. This is done by storing again the peak numbers and concentrations of the chosen standard in the LIBRARY STORE WINDOW under the METHOD/LIBRARY/STORE command. Finally, REINTEGRATE and use PRINT/ANALYSIS to provide a hard copy record of the updated calibration.

SOIL AND WATER SAMPLE PREPARATION AND ANALYSIS

Consistency is very important in the preparation of soil samples. Collection and preparation of all soil samples should follow exact and consistent procedures in order to obtain meaningful results.

1. The soil samples are collected in glass jars and placed in a cooler of ice which should be maintained at 4° C (± 2° C). Dispense 10 mL of DI water to each 40-mL VOA vial by use of a 10-mL pipet and an aspirator bulb. Approximately 10 grams of soil is collected from the glass jar and added to the 10 mL of DI water already in the 40-mL VOA vial. The weight of the soil added is determined by difference using the small electronic balance (water plus soil wt. - water wt. = soil wt.). The sample is capped with a teflon cap and is shaken for 30 seconds to mix and volatilize the BTEX or similar compounds. All samples must be warmed in the water bath for 15 minutes before injection of headspace onto the GC.

2. Water samples are prepared by simply dispensing 10 mL of aqueous sample, using a 10-mL pipet and an aspirator bulb, into a 40-mL VOA vial, and shaking for 30 seconds to volatilize the components present. All samples must be warmed in the water bath for 15 minutes before injection of headspace onto the GC.

3. Analyze headspace from prepared soil or water samples according to the procedures given in the GC ANALYSIS section. **Be careful not to inject any liquid water into the GC, as it will SEVERELY DAMAGE the column and render the instrument unusable.** Remember to update the NOTEPAD with sample ID information. This can be done while the GC is performing an analysis.

4. Once the peak and concentration information is obtained from the analysis printout, the concentration of the compounds in the soil can be calculated using the formula below:

$$X = \frac{(PR)\ (WV)}{(SS)} \qquad \text{(assume for water: 1 gram = 1 ml)}$$

Where:
X = Contaminant concentration in soil sample (in ppm);
PR = Plotter reading (in ppm);
WV = Weight of deionized water solution (in grams); and
SS = Exact weight of soil sample (in grams).

Note: WV = 10 mL or 10 grams.
SS should be as close to 10 grams as possible.
1 ppm = 1 μg/mL.

If the soil sample is exactly 10 grams, then X = PR and no calculation is required.

SHUTDOWN

1. Shut down the 10S+ GC by first selecting GC DETECTOR OFF under the STATUS command. This will turn off the PID lamp and the GC oven. Then select REMOVE FUNCTION under the STATUS command in order to clear out the GC for the next analysis session. The computer will prompt "Data will be lost," to which you can answer "Yes."

2. Press OFF. Replace the injection port septum every day or every other day (see page 8-7). Be sure the Teflon face of the septum is down and that the septum retainer is not over tightened upon replacement.

Jon L. Williams

4100 N.W. Loop 410

(210) 731-0000 Ext 169

Worcester National Guard
Base / Worcester, MA /
Massachusetts National Guard
Job # 1315-199

Important Information

Required Clothing: Zero Hood, Coveralls,
(For weather) Rain Coat, Insulated &
Water Proof Boots, & Insulated Coveralls,

Predicted Weather - Temp. 20° to 50° F
Light Rain (Some freezing rain)

Flight Due Out at: 8:00 A.M.

Monday will be In-Briefing

Important Contacts:
Mr Pete McGinnis - Facility Engineer
Coordinator
Phone # (508) 799-6963 Ext. 5529
FAX # (508)

Mr. John Richardson - Environ. Coordinator
Phone # (413) 568-9151
FAX # (413) 572-1565

Items (Special) For log: Decon, Calibration,
Tail Gate Meeting, Weather (esp. Wind Direction)
& Daily Log of events.

Date: 4/3/95 Day 1
Weather: Low - 28 High - 50
35% Humidity
Tuesday Forecast - Low 30's 55 to 60° High
Wednesday Forecast - Low Teens 30 to 34° High

Arrival Time: 7:59
Briefing
Meeting (McGinnis) 8:00-8:30
Safety Meeting 8:30-8:40

Start Re-Stakeout Boring
Locations - 9:25
10:22 Begin working on G.C.
10:50 Walk-thru with McGinnis
11:30 Lunch & Go Hotel 12:30 to
12:30 Samples (Ice Chests & Cooler
Inventory & Left Hotel at 12
1:45 Arrived at Base & Worked
on PID Calibration Check
3:00 Brass Sleeve Decon to
5:00 Decon Vials (Travel Supplies
6:00 Arrive at Hotel

Jon Williams

Jon Billion

Date 4/4/95 Day 2

Weather - Low 35 High - 55 (Possible 45)
Possible - Rain & Thunder Showers
Breakfast: 7:00
Arrive Base - 7:30
Calibration Microtip (PID) - 8:00
Safety Meeting - 8:10
Staging - 8:15
Drilling Hole 16 - 9:20
Reading on hole - 5.2 ppm
Reading on sample - 6.2 ppm
Background - 2.5 ppm
Time of Readings - 9:40
Started Drilling 4.5' - 10:00
Second sample at 5' - 10:00
Reading on hole - 38 ppm
Reading on sample - 338 peak
200 ppm
Third sample at 6' to 7' -
Reading on hole - 10.8 ppm
Reading on sample - 102 ppm

Volatile Samples
01016 - 13 ppm 01017-2 - 14.7 ppm

Date 4/4/95 Day 2

Drilling Hole 17 - 11:00 p.m.
Background Reading - 6.8 - 7.2 ppm
11:10 A.M.
Reading on Hole - 7.2 - 7.5 ppm
Reading on Sample - 8.3 ppm

Hole Reading 11:15 - 4.2 ppm
Hole Reading 11:30 - 5.2 ppm
Sample Reading - 6.5 ppm

At 7' at 11:43 -
Hole Reading - 5.2 ppm
Sample Reading - 7.0 ppm
Lunch 11:55

Hole #18 12:50
13:00 p.m.
Sample - 11.5 ppm
Hole - 9.2 ppm

13:11
Hole - 5.2 ppm at 3.5'
Sample - 6.0 ppm
13:25 - 6'

Jon Billion

Date 4/4/95 Page 2

Hole 20 - 13:30 Setup
13:50 -
Hole - 3.2 ppm. After Sample 4.2 ppm
Sample - 3.3 ppm
Hit Bedrock at 3' at 14:00
Hole at 14:10 - 5.2 ppm

Hole 21
Hole 1' at 14:23 - 3.2 ppm
Sample - 5.9 ppm
14:52 Sample Check
Volatiles Vials

01020 - 11.3 ppm
01021 - 11.9 ppm "

14:52 Preparing Equipment
for 4-5-95
15:00 Take Field Blanks
15:25 Field Blanks Complete
15:30 Take Equipment Blanks
16:00 Equip. Blanks Complete

4/4/99 Page 2
16:12 Packing Samples
16:42 Packing Complete
16:45 Wrapping Spoons
17:00 Fold Ex/Ship Samples
17:17 Back In Hotel

Jon Williams

4/5/95 Day 3

Weather - Boston Low 23°F
Boston High 34°F

Worcester - Low - 12° to 15°F
High - 24° to 28°F

Arrival Time - 8:10
Safety Meeting - 8:25
Calibrate PID - 8:40
Hole #123 - Preparation 9:00
Boring Hole #123 - ~~9:3~~ 9:20
Hole Reading - 0 ppm
Sample Reading - 2.0 ppm

Hole - 22 - 9:45
Hole Reading at 9:55 - 4.4 ppm
Sample Reading at 9:58 - 6.4 ppm

3' - 10:10
Hole Reading - 2.2 ppm
Sample Reading - 5.1 ppm

4/5/95 Day 3

Hole 19 - 10:30
Hole Reading - 2.2 ppm
Sample Reading - 4.4 ppm
10:52 - 2nd Sample
Hole Readings - 10:
Interval 2 - 2.5 to 4.0'
Sample Reading - 5.4 ppm

Volatiles (Amb.) - Hole

01022 - 4.6 ppm

01023 - 6.1 ppm

Hole 24 - 11:05
Sample - 11:12
Hole Reading - 2.2 ppm
Sample Reading - 2.4 ppm at 11:20

Volatiles (Amb.)

01024 - 1.2 ppm
Lunch - 11:55
12:30 Update Paperwork

4/5/95 Day 3

13:20 Equipment Blank
13:50 Field Blank
15:30 Drums + Labelling
16:00 Packing + Cleaning
16:30 Finishing Light Waiting for Fedex
17:00 Arrived at Hotel

Jon Williams

4/6/95 Day 5 9.W.

9:00 Arrived at Base
9:05 Light Through
9:20 Pre-Briefing Meeting with Commander
9:45 Finished Meeting
9:47 Checked Caps on Borings & Removed Tags
11:00 Departure

Jon Williams

Destry Greenway

4100 NW Loop 410 Ste. 230
San Antonio, TX 78229
210-731-0000

Worcester Addendum 1315-199

Friday 3-31-95

0830 - Pre-mobilization meeting
0915 - Meeting over

3 Decon procedures
4-8 Chronology of events

No further entries
Dave Greaney

Sunday 4-2-95

06:00 CST Left apartment to pick-up Earl for flight

05:1700 CST Arrive at motel in Worcester

No further entries
Dr. Bruno

Decon procedure

1. wash with brush in water with Alconox
2. rinse with drinking-quality water
3. rinse with ASTM Type I water
4. rinse with pesticide-grade methanol
5. allow to air dry
6. wrap in aluminum foil

No further entries
Dr. Bruno

(1)

Monday 4-3-95

0730 Left motel
0750 Arrive at base
0800 Walked base to become familiar with it.
0825 Unload boxes
0840 Safety briefing by Earl. Unload more equip.
0928 Begin staking boring locations
1022 Begin working on GC
1050 Walked locations with Pete McGinnis
1130 Left base to go to hotel
1230 Left hotel for lunch break
1345 Arrived at base. Set up equip. for charging. Calibrated PIDs, set up GC.
1500 Begin decon of sleeves and caps.
1650 Decon complete
1710 Leave base to go to store.
1745 Leave store (bought fire extinguisher etc. for job)
1800 Arrive at motel

No further

Tuesday 4-4-95

06:25 Left motel to eat breakfas
07:45 Arrive at base. Begin setting up decon.
08:10 Safety briefing with Jon Williams.
09:00 Begin decon 01-016 BH
10:10 Decon complete 01-016 BH
10:50 Begin decon 01-017 BH
12:05 Decon complete 01-017 BH
Break for lunch
12:40 Return from lunch
13:00 Begin decon 01-018 BH
13:30 Decon complete 01-018 BH
13:30 Begin decon 01-020 BH
14:00 Decon complete 01-020 BH
14:00 Begin decon 01-021 BH
14:20 Decon complete 01-021 BH
14:20 Decon spoons for 4-5-95 (next day)
14:55 Decon complete
15:00 Take field blank
15:25 Field blank complete
15:30 Take equipment blank
(continued)

16:00 Equip. blank complete. Seal and prepare ice chests for shipment
16:45 Wrap spoons in foil
16:55 Leave base
17:05 Arrive at Fedex
17:20 Arrive at motel

No further entries
Dusty Bowling

Wednesday 4-5-95

0700 Leave motel to eat breakfast.
0810 Arrive at base
0820 Safety briefing given by Jon Williams
0825 Set up decon
0925 Begin decon for sample spoons (Since there will be only 1 or 2 samples per boring and there are 3 spoons, no attempt will be made to differentiate one boring from another on decon times.)
1130 Decon complete on spoons for borings
1155 Break for lunch
1230 Return from lunch
1320 Take equip. blank sample
1340 Decon 3 spoons for shipment To San Antonio. Begin packing and cleaning up.
1640 Leave base
1700 Arrive at motel

No further

(8)

Thursday 4-6-95

0800 Leave motel for breakfast
0850 Arrive at base
0915 Out briefing with LTC. Joseph Bellino
~~Leave base~~
1100 Leave base

No further entries
Scotty Creany

PROJECT NAME: Worcester Addendum Site Investigation

PROJECT LOCATION: Worcester ANGS, Worcester, Massachusetts

PROJECT NO.: DAHA90-93-D-0005/0039 1315-199

LOGGER: Earl E. Parker II

DRILLING CO.: Technical Drilling Services (TDS)

DRILLER: Peter Newsham

DRILLING METHOD: Hollow Stem Auger

BORING/~~WELL~~ NUMBER: 01-016 BH

RIG: Acker AD-2 Drill Rig and 4.25" (ID) Augers

WEATHER: Cold, Breezy, Drizzle; Temp. 49°F

DATE DRILLED: 4 April 1995

SURFACE ELEVATION: 764.5'

SAMPLING METHOD: California Style Split Spoon Sampler

DEPTH DRILLED: 10.0' BLS

DEPTH TO WATER: No Water Encountered

DATE MEASURED: Not Applicable

TOC ELEVATION: Not Applicable

PAGE 1 OF 9

SAMPLE DEPTH	BLOW COUNTS			% REC	LAB SAMPLE INTERVAL	FIELD SCREENING PID (ppm)	FIELD SCREENING ATHA (ppm)	FIELD SCREENING Field ~~PC~~	FIELD SCREENING	ASTM Soil Classification Codes	DEPTH FROM	DEPTH TO	DESCRIPTION: COMPOSITION, STRUCTURE, CONSISTENCY, COLOR, DEGREE OF MOISTURE, ODOR
0.5 - 2.0	10	18	50	100	INT 1 ~~0.5-3.0~~	3.0	13.0			SW	0.5	2.0	Brown to dark gray, very poorly sorted sand and coarse sand, little silt. Loose, slightly moist. (Fill material)
2.0 - 5.0	-	-	-	-	-	-	-			SW	2.0	5.0	"
5.0 - 7.5	-	-	-	-	-	-	-			SW	2.0	5.0	"
7.5 - 9.0	23	28	31	65	INT 2	230	Not Obtained			SM	7.5	9.0	Brown to Dark Gray coarse sand and gravel. Medium to coarse sand, loose to slightly cohesive, silty sand. Slightly moist. Petroleum odor (Fill material)
9.0 - 10.0	-	-	-	-	-	-	-			SM	9.0	10.0	"

OPTECH
4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

NOTES: Fill, loose, coarse grained. Not able to collect enough sample to conduct ATHA on Interval 2 sample. Slight petroleum odor at 7.5' BLS. Obtain Interval 2 sample from 7.5-9.0' BLS. Bedrock encountered at 10.0' BLS. Asphalt from surface to 0.5' BLS.

PROJECT NAME: Worcester Addendum Site Investigation

PROJECT LOCATION: Worcester ANGS, Worcester, Massachusetts

PROJECT NO.: DAHA90-93-D-0005/0039 1315-199

LOGGER: Earl E. Parker II

DRILLING CO.: Technical Drilling Services (TDS)

DRILLER: Peter Newsham

DRILLING METHOD: Hollow Stem Auger

BORING/WELL NUMBER: 01-017 BH

RIG: Acker AD-2 Drill Rig and 4.25" (ID) Augers

WEATHER: Cool, Breezy, Cloudy, 55°F

DATE DRILLED: 4 April 1995

SURFACE ELEVATION: 768.9'

SAMPLING METHOD: California-Style Split Spoon Sampler

DEPTH DRILLED: 7.0' BLS

DEPTH TO WATER: No Water Encountered

DATE MEASURED: Not Applicable

TOC ELEVATION: Not Applicable

PAGE 2 OF 9

SAMPLE DEPTH	BLOW COUNTS			% REC	LAB SAMPLE INTERVAL	FIELD SCREENING PID (ppm)	FIELD SCREENING ATHA (ppm)			ASTM Soil Classification Codes	DEPTH FROM	DEPTH TO	DESCRIPTION: COMPOSITION, STRUCTURE, CONSISTENCY, COLOR, DEGREE OF MOISTURE, ODOR
0.5-2.0	19	30	44	90	Int 1	6.2	14.7			SW	0.5	2.0	Gray to Brown fill material. Coarse to Medium sand. Black charcoal fill in upper part. Loose to slightly cohesive slightly moist. Gravelly.
2.0-5.0	-	-	-	-	-	-	-			SW			
5.0-7.0	5	6	50	65	Int 2	6.8	14.7			SM	5.0	7.0	Brown to Dark Brown sand and silty sand. Coarse sand and gravel and silt. Slightly cohesive and moist.

OPTECH
4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

NOTES: Fill, loose coarse sand and gravel becomming more silty near the bottom. No odor. No water encountered. Bedrock at 7.0' BLS.
Asphalt from Surface to 0.5' BLS

PROJECT NAME: Worcester Addendum Site Investigation
PROJECT LOCATION: Worcester ANGS, Worcester, Massachusetts
PROJECT NO.: DAHA90-93-D-0005/0039 1315-199
LOGGER: Earl E. Parker II
DRILLING CO.: Technical Drilling Services (TDS)
DRILLER: Peter Newham

DRILLING METHOD: Hollow Stem Auger
BORING/WELL NUMBER: 01-018 BH
RIG: Acker AD-2 Drill Rig and 4.25" (ID) Augers
WEATHER: Cool, Breezy, Cloudy: Temp 55°F
DATE DRILLED: 4 April 1995
SURFACE ELEVATION: 767.5'

SAMPLING METHOD: California Style Split Spoon Sampler
DEPTH DRILLED: 6.0' BLS
DEPTH TO WATER: No Water Encountered
DATE MEASURED: Not Applicable
TOC ELEVATION: Not Applicable
PAGE 3 OF 9

SAMPLE DEPTH	BLOW COUNTS			% REC	LAB SAMPLE INTERVAL	FIELD SCREENING PID (ppm)	FIELD SCREENING ATHA (ppm)	FIELD SCREENING	FIELD SCREENING	ASTM Soil Classification Codes	DEPTH FROM	DEPTH TO	DESCRIPTION: COMPOSITION, STRUCTURE, CONSISTENCY, COLOR, DEGREE OF MOISTURE, ODOR
0.5-2.0	21	41	50	75	Int 1	7.8	14.9			SW	0.5	2.0	Brown to Dark Brown coarse sand, sand, and gravel fill material. Some silty sand.
2.0-5.0	-	-	-	-	-	-	-			SW	2.0	5.0	loose to slightly cohesive and slightly moist "
5.0-6.0	11	50	-	80	Int 2	13.5	13.7			SW	5.0	6.0	"

OPTECH
4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

NOTES: Fill material, uniform in nature to bedrock. Bedrock encountered at 6.0' BLS. No water encountered, No odor detected. Asphalt from surface to 0.5' BLS.

PROJECT NAME: Worcester Addendum Site Investigation

PROJECT LOCATION: Worcester ANGS, Worcester, Massachusetts

PROJECT NO.: DAHA90-93-D-0005/0039 1315-199

LOGGER: Earl E. Parker II

DRILLING CO.: Technical Drilling Services (TDS)

DRILLER: Peter Newsham

DRILLING METHOD: Hollow Stem Auger

BORING/WELL NUMBER: 01-020BH

RIG: Acker AD-2 Drill Rig and 4.25" (ID) Augers

WEATHER: Cool, Breezy, Cloudy Temp 55°

DATE DRILLED: 4 April 1995

SURFACE ELEVATION: 769.3'

SAMPLING METHOD: California Style Split Spoon Sampler

DEPTH DRILLED: 3.0' BLS

DEPTH TO WATER: No Water Encountered

DATE MEASURED: Not Applicable

TOC ELEVATION: Not Applicable

PAGE 4 OF 9

SAMPLE DEPTH	BLOW COUNTS			% REC	LAB SAMPLE INTERVAL	FIELD SCREENING PID (ppm)	FIELD SCREENING ATHA (ppm)	FIELD SCREENING	FIELD SCREENING	ASTM Soil Classification Codes	DEPTH FROM	DEPTH TO	DESCRIPTION: COMPOSITION, STRUCTURE, CONSISTENCY, COLOR, DEGREE OF MOISTURE, ODOR
0.5-2.0	10	18	24	80	0.5-2.0	5.8	11.3			SW	0.5	2.0	Brown to dark brown coarse sand and gravel fill material. loose to slightly cohesive.
2.0-3.0	-	-	-	-	-	-	-			SW	-	-	Many angular cobbles and gravel. Slightly moist.

OPTECH
4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

NOTES: Fill material, No water or odor encountered. Bedrock at ~~2.5'~~ 3.0' BLS

Asphalt from surface to 0.5' BLS

PROJECT NAME: Worcester Addendum Site Investigation

PROJECT LOCATION: Worcester ANGS, Worcester, Massachusetts

PROJECT NO.: DAHA90-93-D-0005/0039 1315-199

LOGGER: Earl E. Parker II

DRILLING CO.: Technical Drilling Services (TDS)

DRILLER: Peter Newsham

DRILLING METHOD: Hollow Stem Auger

BORING/WELL NUMBER: 01-021 BH

RIG: Acker AD-2 Drill Rig and 4.25" (ID) Augers

WEATHER: Cool, Breezy, Cloudy

DATE DRILLED: 4 April 1995

SURFACE ELEVATION: 769.1'

SAMPLING METHOD: California Style Split Spoon Sampler

DEPTH DRILLED: 1.0' BCS

DEPTH TO WATER: No Water Encountered

DATE MEASURED: Not Applicable

TOC ELEVATION: Not Applicable

PAGE 5 OF 9

SAMPLE DEPTH	BLOW COUNTS			% REC	LAB SAMPLE INTERVAL	FIELD SCREENING PID (ppm)	FIELD SCREENING ATHA (ppm)	FIELD SCREENING	FIELD SCREENING	ASTM Soil Classification Codes	DEPTH FROM	DEPTH TO	DESCRIPTION: COMPOSITION, STRUCTURE, CONSISTENCY, COLOR, DEGREE OF MOISTURE, ODOR
0.5 - 1.0	18	50	-	60	Int 1	7.3	11.9			SW	0.5	1.0	Brown to dark brown coarse sand and gravel fill material. Cobbles and angular gravel fragments. Loose, slightly moist.

OPTECH

4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

NOTES: Very shallow soil horizon. Bedrock at 1.0' BCS.

Asphalt from 0.0 to 0.5' BCS.

PROJECT NAME: Worcester Addendum Site Investigation

PROJECT LOCATION: Worcester ANGS, Worcester, Massachusetts

PROJECT NO.: DAHA90-93-D-0005/0039 1315-199

LOGGER: Earl E. Parker II

DRILLING CO.: Technical Drilling Services (TDS)

DRILLER: Peter Newsham

DRILLING METHOD: Hollow Stem Auger

BORING/WELL NUMBER: 01-023BH

RIG: Acker AD-2 Drill Rig and 4.25" (ID) Augers

WEATHER: Very cold, windy, Partl, Cloudy

DATE DRILLED: 5 April 1995

SURFACE ELEVATION: 769.9'

SAMPLING METHOD: California-Style Split Spoon Sampler

DEPTH DRILLED: 1.5' BLS

DEPTH TO WATER: No Water Encountered

DATE MEASURED: Not Applicable

TOC ELEVATION: Not Applicable

PAGE 6 OF 9

SAMPLE DEPTH	BLOW COUNTS			% REC	LAB SAMPLE INTERVAL	FIELD SCREENING PID (ppm)	FIELD SCREENING ATHA (ppm)	FIELD SCREENING	FIELD SCREENING	ASTM Soil Classification Codes	DEPTH FROM	DEPTH TO	DESCRIPTION: COMPOSITION, STRUCTURE, CONSISTENCY, COLOR, DEGREE OF MOISTURE, ODOR
0.5 - 1.5	30	31	50	100	Int 1	2.0	6.1			SW	0.5	1.5	Brown to dark brown coarse sand and gravel fill material. Loose, dry. little silt and silty sand at bottom.

OPTECH

4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

NOTES: Very shallow soil horizon. Bedrock encountered at 1.5' BLS.

Asphalt from surface to 0.5' BLS

PROJECT NAME: Worcester Addendum Site Investigation

PROJECT LOCATION: Worcester ANGS, Worcester, Massachusetts

PROJECT NO.: DAHA90-93-D-0005/0039 1315-199

LOGGER: Earl E. Parker II

DRILLING CO.: Technical Drilling Services (TDS)

DRILLER: Peter Newsham

DRILLING METHOD: Hollow Stem Auger

BORING/WELL NUMBER: 01-022 BH

RIG: Acker AD-2 Drill Rig and 4.25" (ID) Augers

WEATHER: Very cold, windy, Cloudy

DATE DRILLED: 5 April 1995

SURFACE ELEVATION: 770.2'

SAMPLING METHOD: California-Style Split Spoon Sampler

DEPTH DRILLED: 2.5' BLS

DEPTH TO WATER: No Water Encountered

DATE MEASURED: Not Applicable

TOC ELEVATION: Not Applicable

PAGE 7 OF 9

SAMPLE DEPTH	BLOW COUNTS			% REC	LAB SAMPLE INTERVAL	FIELD SCREENING PID (ppm)	FIELD SCREENING ATHA (ppm)			ASTM Soil Classification Codes	DEPTH FROM	DEPTH TO	DESCRIPTION: COMPOSITION, STRUCTURE, CONSISTENCY, COLOR, DEGREE OF MOISTURE, ODOR
0.5-2.0	28	47	62	80	INT 1	5.8	4.6			SW	0.5	2.0	Brown coarse sand and gravel fill. Silty sand near bottom. Coarse sand is loose, slightly moist. Silty sand is hard, slightly cohesive, and dry. ~~[illegible]~~ EP
2.0-2.5	50	-	-	-	-	-	-			SW	2.0	2.5	

OPTECH
4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

NOTES: Very shallow soil horizon. One sample interval obtained.
Bedrock encountered at 2.5' BLS.
Asphalt from surface to 0.5' BLS

PROJECT NAME: Worcester Addendum Site Investigation

PROJECT LOCATION: Worcester ANGS, Worcester, Massachusetts

PROJECT NO.: DAHA90-93-D-0005/0039 1315-199

LOGGER: Earl E. Parker II

DRILLING CO.: Technical Drilling Services (TDS)

DRILLER: Peter Newsham

DRILLING METHOD: Hollow Stem Auger

BORING/WELL NUMBER: 01-019 B11

RIG: Acker AD-2 Drill Rig and 4.25" (ID) Augers

WEATHER: Very cold, windy, Cloudy

DATE DRILLED: 5 April 1995

SURFACE ELEVATION: 769.7'

SAMPLING METHOD: California Style Split Spoon Sampler

DEPTH DRILLED: 3.3' BLS

DEPTH TO WATER: No Water Encountered

DATE MEASURED: Not Applicable

TOC ELEVATION: Not Applicable

PAGE 8 OF 9

SAMPLE DEPTH	BLOW COUNTS			% REC	LAB SAMPLE INTERVAL	FIELD SCREENING PID (ppm)	FIELD SCREENING ATHA (ppm)	FIELD SCREENING	FIELD SCREENING	ASTM Soil Classification Codes	DEPTH FROM	DEPTH TO	DESCRIPTION: COMPOSITION, STRUCTURE, CONSISTENCY, COLOR, DEGREE OF MOISTURE, ODOR
0.5 - 2.0	23	38	31	70	Int 1	4.5	10.0			SW	0.5	2.0	Brown coarse sand ~~and~~ fill material, some silty sand and gravel. loose to slightly cohesive, slightly moist:
2.0 - 3.5	20	21	50	60	Int 2	4.5	Not Obtained			SW	2.0	3.5	

OPTECH
4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

NOTES: Bedrock encountered at 3.3' BLS. Was able to obtain two interval samples from this boring.
Asphalt from surface to 0.5' BLS

PROJECT NAME: Worcester Addendum Site Investigation

PROJECT LOCATION: Worcester ANGS, Worcester, Massachusetts

PROJECT NO.: DAHA90-93-D-0005/0039 1315-199

LOGGER: Earl E. Parker II

DRILLING CO.: Technical Drilling Services (TDS)

DRILLER: Peter Newsham

DRILLING METHOD: Hollow Stem Auger

BORING/WELL NUMBER: 01-024BH

RIG: Acker AD-2 Drill Rig and 4.25" (ID) Augers

WEATHER: Very cold, windy, cloudy

DATE DRILLED: 5 April 1995

SURFACE ELEVATION: 775.7

SAMPLING METHOD: California-Style Split Spoon Sampler

DEPTH DRILLED: 2.0' BLS

DEPTH TO WATER: No Water Encountered

DATE MEASURED: Not Applicable

TOC ELEVATION: Not Applicable

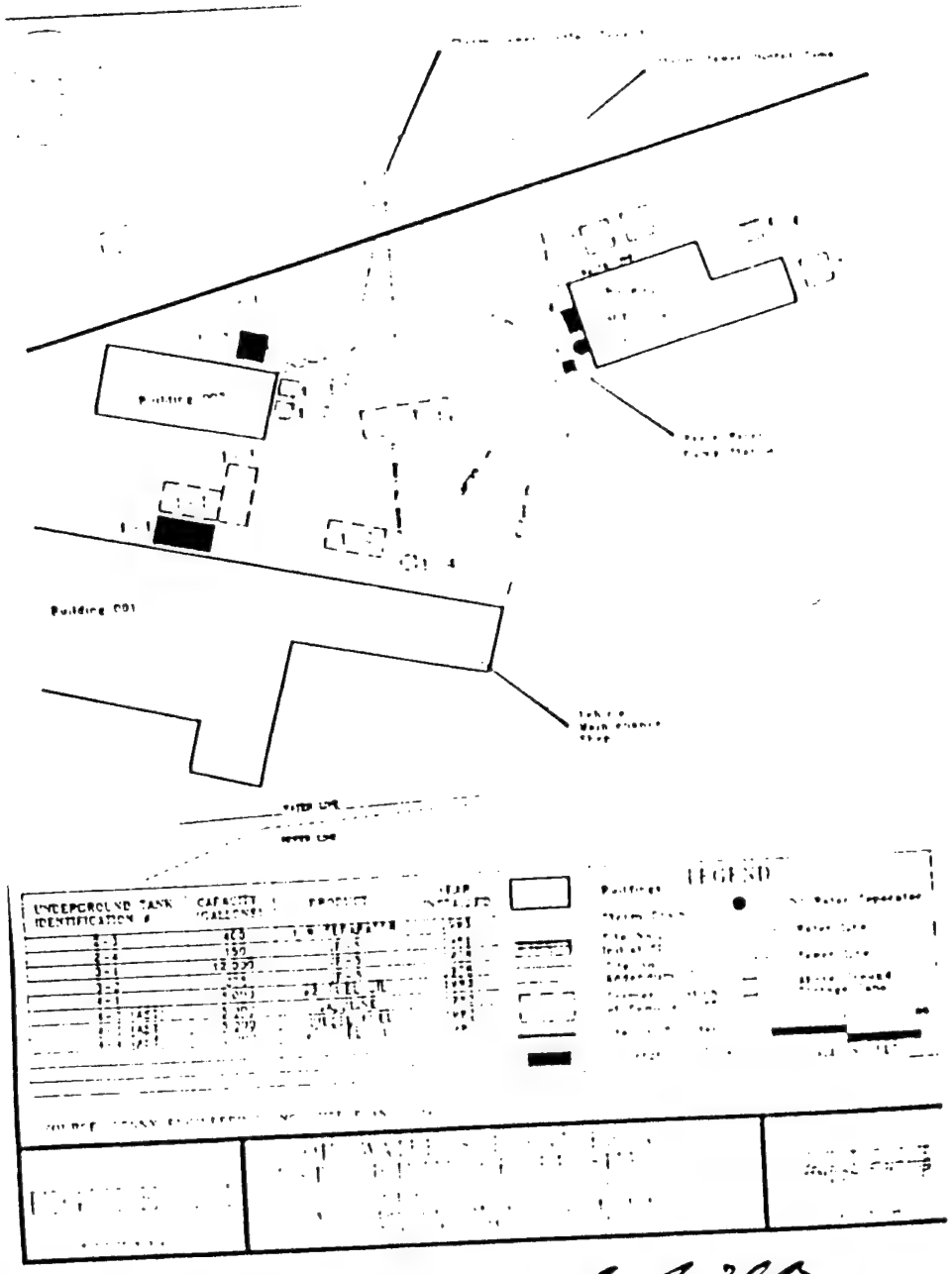
PAGE 9 OF 9

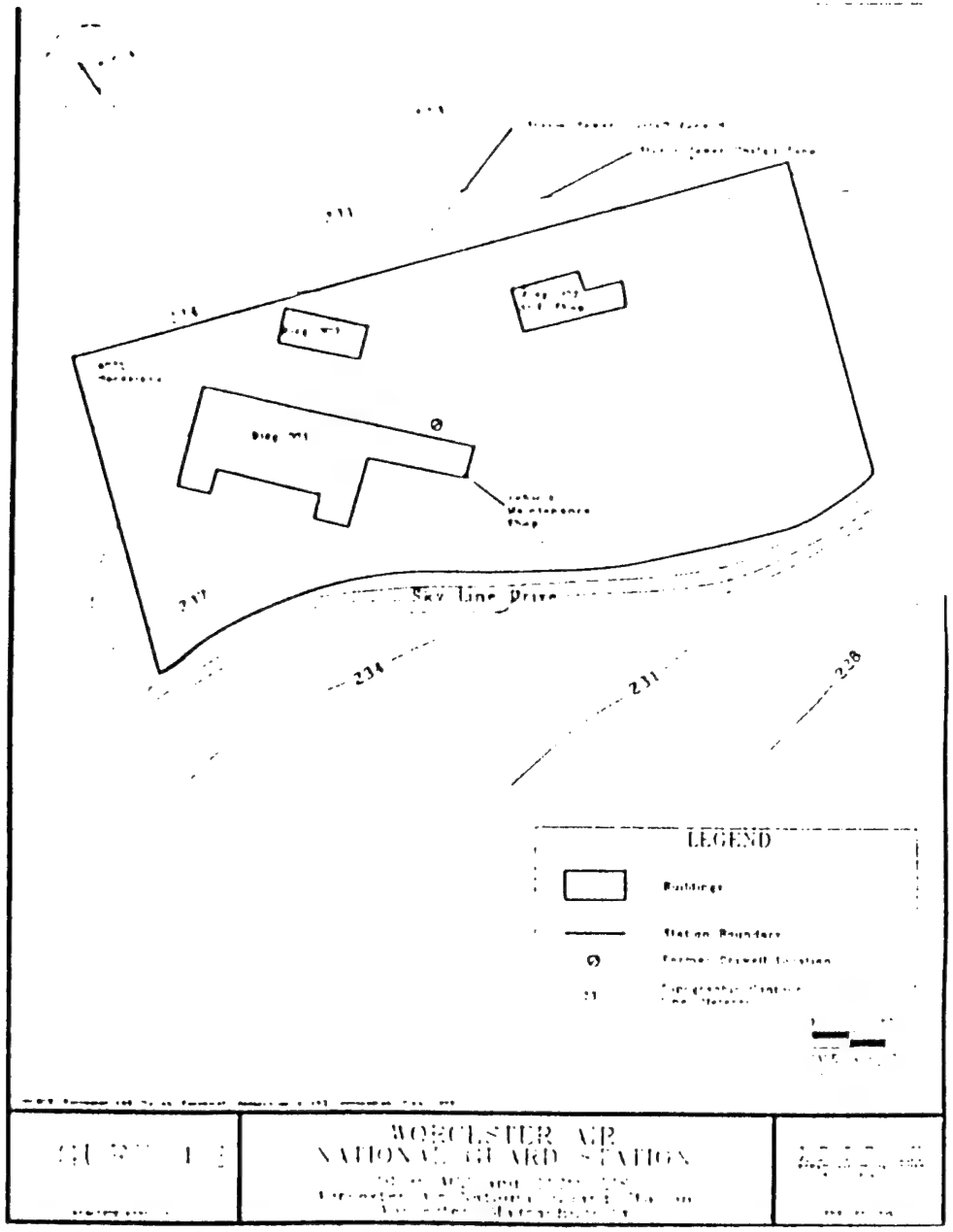
SAMPLE DEPTH	BLOW COUNTS			% REC	LAB SAMPLE INTERVAL	FIELD SCREENING PID (ppm)	FIELD SCREENING ATHA (ppm)	FIELD SCREENING	FIELD SCREENING	ASTM Soil Classification Codes	DEPTH FROM	DEPTH TO	DESCRIPTION: COMPOSITION, STRUCTURE, CONSISTENCY, COLOR, DEGREE OF MOISTURE, ODOR
0.5-2.0	6	5	50	90	INT 1	2.4	1.9			SW	0.5	2.0	Lt. Brown sand and coarse sand. ~~and~~ ~~gravel~~ gravel. Well sorted coarse sand w/ few gravel. Bottom of sample was silty sand slightly cohesive and moist.

OPTECH
4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253

NOTES: Very shallow soil horizon. Bedrock encountered at 2.0' BLS.

Asphalt from surface to 0.5' BLS


Building 001
LEGEND
UNDERGROUND TANK IDENTIFICATION #
CAPACITY (GALLONS)
PRODUCT


Sky Line Drive
234
231
228
LEGEND
Buildings
Station Boundary
WORCESTER AFB
NATIONAL GUARD STATION

Operational Technologies Corporation

OpTech SITE OPERATIONS
Field Health and Safety Audit Checklist

		YES	NO	N/A
Administrative				
1.1	Site safety plan available on site	—	—	—
1.2	Training documentation available:			
	o For OpTech employees	—	—	—
	o For subcontractor employees	—	—	—
1.3	Medical fit for duty certificates	—	—	—
1.4	Site safety meeting rosters executed	—	—	—
1.5	OSHA posters (where required)	—	—	—
1.6	Site Safety Officer appointed/present?	—	—	—
1.7	Activities conform to description in H&S plan and SOW	—	—	—
EXPOSURE MONITORING				
2.1	Equipment available & in use according to H&S plan	—	—	—
2.1	Calibration accomplished, current, & logged	—	—	—
2.3	Monitoring log available & current	—	—	—
2.4	Does monitoring log reflect excursions above action levels?	—	—	—
2.5	Has personal monitoring been performed?	—	—	—
2.6	Have any exposure symptoms been reported?	—	—	—
HEAT/COLD STRESS MONITORING				
3.1	Has heat/cold stress monitoring been implemented?	—	—	—
3.2	Are work/rest regimens established & followed?	—	—	—
3.3	Are pulse rate and oral temperature taken?	—	—	—
3.4	Is the monitoring log available & current?	—	—	—
3.5	Any heat or cold stress incidents?	—	—	—
3.6	Are personnel aware of symptoms & first aid?	—	—	—
3.7	Are ambient temperatures logged?	—	—	—
3.8	Is at least 1 person onsite at all times who is current in first aid & CPR?	—	—	—
PERSONAL PROTECTIVE EQUIPMENT				
4.1	All PPE called for in the site H&S plan available?	—	—	—
4.2	Is PPE used in accordance with the H&S plan?	—	—	—
4.3	Has PPE been upgraded or downgraded?	—	—	—
4.4	All personnel approximately taped-up?	—	—	—
4.5	Is there a need to modify the PPE requirements?	—	—	—
4.6	Are engineering controls used on the site?	—	—	—
4.7	If 4.6 is no, could they be used?	—	—	—

Operational Technologies Corporation

OpTech SITE OPERATIONS
Field Health and Safety Audit Checklist (Concluded)

		YES	NO	N/A
CONFINED SPACES				
5.1	Does the site require confined space entry?	—	—	—
5.2	Is entry permit present and complete?	—	—	—
5.3	Do personnel have documented confined space training?	—	—	—
DECONTAMINATION PROCEDURES				
6.1	Are H&S plan decontamination procedures observed?	—	—	—
6.2	Is the proper order of PPE removal observed?	—	—	—
6.3	Are decon solutions/equipment/used clothing properly marked and drummed/stored on site/disposed of?	—	—	—
DRILLING				
7.1	Have proper underground utility clearances been obtained?	—	—	—
7.2	Have overhead utility clearances been considered?	—	—	—
7.3	Flammable liquids in approved containers?	—	—	—
7.4	Emergency rig shutoff within reach of the operator?	—	—	—
7.5	Appropriate fire shutoff within reach of the operator?	—	—	—
7.6	Drilling platform properly stabilized?	—	—	—
7.7	Ropes and chains in good condition?	—	—	—
SAMPLING				
8.1	Are site-specific sampling events accomplished?	—	—	—
8.2	Are employees properly gloved?	—	—	—
8.3	Are proper sampling techniques observed?	—	—	—
8.4	Are samples immediately put on ice?	—	—	—
8.5	Are samples properly controlled by chain-of-custody form?	—	—	—
OVERALL				
9.1	Any gross unsafe activities observed?	—	—	—
9.2	Any unsafe deviations from the H&S plan?	—	—	—
9.3	If 9.3 is yes, have they been investigated & documented?	—	—	—

COMMENTS:

_____

_____

_____

OpTech

DAILY FIELD REPORT

WORCESTER AIR NATIONAL GUARD STATION
SI Addendum Field Work
DAHA90-93-D-0005/0039

Date 04/03/95 **Page** 1 **of** 1

TO : **Bill Lodder, ANGRC/CEVR Project Manager**

FROM : **Earl Parker, OpTech Site Manager**

Site Telephone Number: Worcester ANGS - (508) 799-6963 ext 5529, POC - Pete McGinnis.

OpTech Field Team :	**Earl Parker**	**Site Manager**
	Jon Williams	**Health and Safety Monitor**
	Joe Byrd	**Field GC Operator**
	Destry Greenway	**Field Technician**

Work Completed: Arrived at Worcester ANGS. Met with Mr. Pete McGinnis, Worcester ANGS POC for John Richardson, ENV Coord at Barnes ANGS, Springfield Massachusetts. No formal inbriefing was requested therefore Mr. McGinnis was briefed to represent Worcester ANGS. Boring locations were staked and approved after a review of utility diagrams by station personnel. Some boring locations were moved slightly due to obstructions at the site. All equipment is on hand and drilling/sampling will begin tomorrow.

Deviations from the Work Plan: NONE - Some boring locations were moved slightly due to obstructions at the site. The former dry well location was approximately 40 feet west of the location depicted in the work plan. All borings associated with the drywell (all except 01-016BH and 01-024BH) were adjusted accordingly.

Site Visitors:

NONE - John Richardson may visit tomorrow

OpTech

DAILY FIELD REPORT

WORCESTER AIR NATIONAL GUARD STATION
SI Addendum Field Work
DAHA90-93-D-0005/0039

Date 4 / 4 / 95 **Page** 1 **of** 1

TO : Bill Lodder, ANGRC/CEVR Project Manager

FROM : Earl Parker, OpTech Site Manager

Site Telephone Number: Worcester ANGS - (508) 799-6963 ext 5529, POC - Pete McGinnis.

OpTech Field Team :	Earl Parker	Site Manager
	Jon Williams	Health and Safety Monitor
	Joe Byrd	Field GC Operator
	Destry Greenway	Field Technician

Work Completed: Began drilling and soil sampling at the Addendum Site. Collected samples from 01-016 BH, 01-017 BH, 01-018 BH, 01-020 BH and 01-021 BH. Should be able to complete soil sampling tomorrow. Field screening with the field GC indicated no BTEX in excess of 50 ppb. PID readings were also minor. Boring 01-016BH did have a petroleum odor in the bottom sample which was about all the excitement we had.

Deviations from the Work Plan: Due to the very shallow nature of the bedrock at 01-020 BH (bedrock at 3.0' BLS) and at 01-021 BH (bedrock at 1.0' BLS) only one soil sample was collected and submitted for analytical analysis.

Site Visitors:

NONE

OpTech

DAILY FIELD REPORT

WORCESTER AIR NATIONAL GUARD STATION
SI Addendum Field Work
DAHA90-93-D-0005/0039

Date 4/5/95 **Page** 1 **of** 1

TO : Bill Lodder, ANGRC/CEVR Project Manager

FROM : Earl Parker, OpTech Site Manager

Site Telephone Number: Worcester ANGS - (508) 799-6963 ext 5529, POC - Pete McGinnis.

OpTech Field Team :	Earl Parker	Site Manager
	Jon Williams	Health and Safety Monitor
	Joe Byrd	Field GC Operator
	Destry Greenway	Field Technician

Work Completed: Completed drilling and sampling at Worcester ANGS. Collected samples from 01-019BH, 01-022BH, 01-023BH and 01-024BH. Due to the shallow nature of the bedrock at these drilling locations only one soil sample was obtained for analytical analysis from 01-022BH, 01-023BH and 01-024BH. Field screening with the PID and field GC indicated no BTEX in excess of 100 ppb. Will conduct outbriefing and demobilization / clean-up tomorrow.

Deviations from the Work Plan: Only one soil sample from 3 borings were obtained for analytical analysis as outlined above.

Site Visitors:

NONE

OpTech

DAILY FIELD REPORT

WORCESTER AIR NATIONAL GUARD STATION
SI Addendum Field Work
DAHA90-93-D-0005/0039

Date 4/6/95 Page 1 of 1

TO : Bill Lodder, ANGRC/CEVR Project Manager

FROM : Earl Parker, OpTech Site Manager

Site Telephone Number: Worcester ANGS - (508) 799-6963 ext 5529, POC - Pete McGinnis.

OpTech Field Team :		
	Earl Parker	Site Manager
	Jon Williams	Health and Safety Monitor
	Joe Byrd	Field GC Operator
	Destry Greenway	Field Technician

Work Completed: Conducted outbriefing with Station Commander to brief him on SI Activities conducted and field screening results. Walked boring locations with land surveyor and oversaw field survey operations. Conducted final demobilization and clean-up activities. DEPARTED WORCESTER ANGS upon completion of Addendum SI Activities.

Deviations from the Work Plan: NONE

Site Visitors:

NONE

OPERATIONAL TECHNOLOGIES CORPORATION

DEVIATION FROM WORK PLAN DURING FIELD WORK
at the
Worcester Air National Guard Station
DAHA90-93-D-0005/0039

Originator/Date : Earl E. Parker II, Site Manager, **(Date) :** 5 April 1995

Work Plan Topic : Two soil samples being collected from each boring location.

Deviation in Field Work : Only one soil sample was collected from five soil borings. 01-020 BH 01-021 BH, 01-022 BH, 01-023 BH and 01-024 BH had one soil sample collected and submitted for analytical analysis.

Reason for Deviation : Depth of soil was insufficient to collect two soil samples. One sample represented the surface and top of the bedrock sample.

ANGRC/CEVR Project Manager Approval : _____

Bill Lodder, ANGRC Project Manager

WORCESTER AIR NATIONAL GUARD STATION
SI ADDENDUM FIELD WORK DAHA90-93-D-0005/0039
OpTech # 1315-199

Calibration Log
Photoionization Detector

Date/Time	Equipment Serial Number	Calibration Standard	Cal Gas Lot Number	Calibrated by:
4/4/95/8:00	AFDD 202	Isobutylene 100ppm	40111	Jon Williams
4/4/95 8:05	SC-61-0	25% LEL		Jon Williams
4/5/95 8:40	AFDD 202	Isobutylene 100 ppm	40111	Jon Williams

WORCESTER ANGS ADDENDUM SITE INVESTIGATION

Sampling Plan

Collected	Sample
EP 4/4 0940	01-016BH INT 1
EP 4/4 1030	01-016BH INT 2
EP 4/4 0955	01-016BH DUPLICATE
EP 4/4 1120	01-017BH INT 1
EP 4/4 1150	01-017BH INT 2
EP 4/4 1125	01-017BH MS
EP 4/4 1135	01-017BH MSD
EP 4/4 1310	01-018BH INT 1
EP 4/4 1345	01-018BH INT 2
EP 4/5/95 1045	01-019BH INT 1
EP 4/5/95 1100	01-019BH INT 2
EP 4/4 1405	01-020BH INT 1
NONE	01-020BH INT 2
EP 4/4 1430	01-021BH INT 1
NONE	01-021BH INT 2
EP 4/5/95 1015	~~01-021~~ 22BH DUPLICATE
EP 4/5/95 1000	01-022BH INT 1
NONE	01-022BH INT 2
EP 4/5/95 0940	01-023BH INT 1
NONE	01-023BH INT 2
EP 4/5/95 1125	01-024BH INT 1
NONE	01-024BH INT 2

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION

HSM580.1A

Operational Technologies Corporation

OpTech SITE SPECIFIC HEALTH AND SAFETY PLANS
Site Health and Safety Briefings Form

Job Name: Worcester N.G. Base Project No. 1315-199
Date: 4-4-95 Start Time: 8:10 Completed: 8:25 A.M.
Site Location: IRP - Site #1 / Worcester National Guard Base
Type of Work (General): Bore Hole Sampling

==========

SITE SAFETY ISSUES

Tasks (This Shift/Day): Bore Holes & Split Pool Sampling

Protective Equipment/Clothing: Steel Toed Shoes, Gloves, Hard Hats, Warm Clothing & Safety Vests - Resp. if needed
Chemical Hazards: Waste Oil (& PNA's), organic solvents, xylene, PD-680, JP-4, JP-5, diesel, Pyrene, lead, chlorinated solvents, gasoline, #2 Fuel Oil & Heavy metals (Arsenic, Barylliu, Possibly Cadmium)
Physical Hazards: Pinch Point, Caught-in-between, heat stress or cold stress, Construction Hazards, Heavy Equipment, Noise
Control Methods: PPE (Safety glasses/Safety boots, nitrile gloves, Hard Hat, Coveralls if splashes possible) Monitoring & Appop. Resp. Fit & Good Work Practices
Special Equipment/Techniques: Bore Hole (Drilling Procedures & Logging) Calibration of air monitoring equipment, Dräger Tube Use
Nearest Telephone:
Hospital Name/Address:
Expected Weather: 35 to 55°F with Light Rain & Possible Thunderstorms

Special Topics (Incidents, actions taken, etc.): Emergency, Contingency Plan, Fire Precautions,

==========

ATTENDEES

PRINT NAME	SIGNATURE
Pete Dewstrow	[signature]
Brian Milliard	[signature]
Joe Williams	[signature]
Destry Greenway	[signature]
Joe Byrd, Jr	[signature]
EARL E PARKER II	[signature]

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION

HSM580.1A

Operational Technologies Corporation

OpTech SITE SPECIFIC HEALTH AND SAFETY PLANS
Site Health and Safety Briefings Form

Job Name: Worcester N.G. Base Project No. 1315-197
Date: 4-5-95 Start Time: 8:25 Completed: 8:35
Site Location: 4 RPEI / Worcester N.G. Base
Type of Work (General): Bore Hole Sampling

==========

SITE SAFETY ISSUES

Tasks (This Shift/Day): Bore Hole Sampling / Split Spoon

Protective Equipment/Clothing: Steel Toed Shoes, Gloves, Hard Hats, Warm Clothing, Safety Vest, and respirators (if needed)
Chemical Hazards: Waste Oil (PNAs), aromatic solvents, xylene PD-680 JP-4, JP-5, diesel, pyrene, lead, chlorinated solvents & other fuels
Physical Hazards: Pinch Points, caught-in-between, cold stress, construction hazards, heavy equipment, noise, & dust
Control Methods: PPE (safety glasses, hard hats, etc), Air Monitoring using PID, LEL meter, and Drager Tube (benzene), & Good Work Practices
Special Equipment/Techniques: Bore Hole, Split Spoon Sampler, calibrate monitoring equip & frequency of air sampling
Nearest Telephone: In headquarters of Nat. Guard Office
Hospital Name/Address: University of Mass. Hospital on Plantation St. off Belmont St.
Expected Weather: 15° to 20° Low & 25° to 30° High with high winds

Special Topics (Incidents, actions taken, etc.): Special Cold Weather measures,

==========

ATTENDEES

PRINT NAME	SIGNATURE
Jay Byrd, Jr	[signature]
Pete Newsham	[signature]
Brian Millard	[signature]
Jon Williams	[signature]
Destiny Greenway	[signature]
Earl Porter	[signature]

SAFETY PLAN COMPLIANCE AGREEMENT

I have received a copy of the Health and Safety Plan for the Project. I have reviewed the plan, understand it, and agree to comply with all of its provisions. I understand that I could be prohibited from working on the project for violating any of the health and safety requirements specified in the plan.

Name	Signature	Date
Pete Dewsnap		4-5-94
Brian Millikan		4-4-94
Destry Greenway		4-4-95
Jon Williams		4-4-95
EARL E PARKER		4-4-95

APPENDIX D

INVESTIGATION DERIVED WASTES DISPOSITION

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Worcester Air National Guard Station
SI ADDENDUM FIELD WORK DAHA90-93-D-0005/0039
OpTech # 1315-199

INVESTIGATION DERIVED WASTE LOG

Drum	Contents (Non-Potable Water / Soil Cuttings)	Date Collected	% Full
1	SOIL CUTTINGS	4,5 Apr 95	100%
2	WATER (DECON WATER only)	4,5 Apr 95	60%

Location of Drums: Adjacent to Northwest corner of Bldg 002.

Date Moved to Final Location : 4/6/95 Inspected by: Earl Parker II

Site Manager : Earl E. Parker II

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Recommended Disposition of Inspection Derived Wastes
101st ACS, Worcester ANGS, Worcester Massachusetts

Drum Number/ Material	Origin	Recommended Disposition	Rationale
1/Soil	01-016BH, 01-017BH, 01-018BH, 01-019BH, 01-020BH, and 01-021BH	Dispose as a hazardous waste.	Soil analysis results indicated SVOCs, TPH, arsenic and beryllium exceeded Massachusetts Reportable Concentrations.
2/Water	Decontamination Wastewater	Obtain approval from Worcester County sewer service for disposal through oil/water separator at Worcester ANGS.	Analytes washed from sampling equipment are significantly diluted by the total volume of decontamination water.

Site Inspection Derived Waste
Drum Containing Cuttings from Boreholes 01-016BH, 01-017BH, 01-018BH, 01-019BH, 01-020BH, and 01-021BH.
101st ACS, Worcester ANGS, Worcester, Massachusetts

Analyte	Maximum Concentration in Soil Cuttings	Action Level Concentration
SVOCs		
Benzo(a)anthracene	4,500 μg/kg	700 μg/kg
Chrysene	5,600 μg/kg	700 μg/kg
Benzo(b)fluoranthene	4,200 μg/kg	700 μg/kg
Benzo(k)fluoranthene	3,000 μg/kg	700 μg/kg
Benzo(a)pyrene	3,900 μg/kg	700 μg/kg
TPH	6,300 mg/kg	2,500 mg/kg
Metals		
Arsenic	59.4 mg/kg	30 mg/kg
Beryllium	0.88 mg/kg	0.8 mg/kg

μg/kg - micrograms per kilogram.
mg/kg - milligrams per kilogram.
SVOCs - Semivolatile organic compounds.
TPH - Total petroleum hydrocarbons.

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APPENDIX E

ANALYTICAL RESULTS, DATA VALIDATION, QUALITY ASSURANCE/QUALITY CONTROL, AND CHAIN-OF-CUSTODY FORMS

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TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

April 26, 1995

Operational Technologies Corp.
4100 N. West Loop 410, Suite 230
San Antonio, TX 78229

ATTN: Earl Parker

Nytest is pleased to submit our Project No. 9521649

Login No 23490,23505 on your sample(s) received: 4/04,05

Test sample(s) associated with this project will be retained for a period of thirty (30) days, unless otherwise instructed.

My staff is available to answer any questions concerning our report and we look forward to serving your future analytical needs.

Very truly yours,
Nytest Environmental Inc.

Remo Gigante
Executive Vice President

Encl: 2 bound reports
Shipped Via: Fedex

box 1518 □ 60 seaview blvd., port washington, ny 11050 □ (516) 625-5500
fax (516) 625-1274

TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc

Project No.: 9521649
Log in No. : 23490, 23505
P.O. No. : Pending
Date :April 26, 1995

ANALYTICAL DATA REPORT
PACKAGE FOR

Operational Technologies Corp.

4100 N. West Loop 410, Suite 230

San Antonio, TX 78229

ATTN: Earl Parker
REF: Worcester-ANGS, Proj. #1315-199

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE

S E E N E X T P A G E

WE CERTIFY THAT THIS REPORT IS A TRUE REPORT OF RESULTS OBTAINED FROM OUR TESTS OF THIS MATERIAL.

RESPECTFULLY SUBMITTED,
NYTEST ENVIRONMENTAL INC.

REMO GIGANTE
EXEC. VICE PRESIDENT

NYS Lab ID. #10195
NJ Cert. #73469
mar

box 1518 = 60 seaview blvd., port washington ny 11050 = (516) 625-5500

NYTEST ENVIRONMENTAL Inc.

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE
2349001	1-16-1	Soil
2349002	1-16-D	Soil
2349003	1-16-2	Soil
2349004	1-17-1	Soil
2349005	1-17-1MS	Soil
2349006	1-17-1MSD	Soil
2349007	1-17-2	Soil
2349008	1-18-1	Soil
2349009	1-18-2	Soil
2349010	1-20-1	Soil
2349011	1-21-1	Soil
2349012	FLDBK1	Water
2349013	EQPBK1	Water
2349014	TRIP-1	Water
2349015	TRIP-2	Water

NYTEST ENVIRONMENTAL Inc.

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE
2350501	1-23-1	Soil
2350502	1-22-1	Soil
2350503	1-22-1D	Soil
2350504	1-19-1	Soil
2350505	1-19-2	Soil
2350506	1-24-1	Soil
2350507	EQPBK2	Water
2350508	FLDBK2	Water
2350509	TRIP-3	Water
2350510	TRIP-4	Water

Table of Contents

Log in No.: 23490, 23505

TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental.

(516) 625-5500 FAX: (516) 625-1274

Chain of Custody Record

page # : 1 of 2

Client Name: Operational Technologies Corporation
Address: 4100 NW Loop 410, Suite 230
San Antonio Tx 78229

Project Manager: Earl Parker
Phone: (210) 731-0000 FAX (210) 731-0008
Project Name: Worcester ANGS
Project Number: 1315-199
P.O. #:
Analytical Protocol: As Per Contract Deliverables: As Per Contract
Sampled By: Earl Parker

Login #: 23490
Ship to:
Nytest Environmental Inc.
60 Seaview Blvd
Port Washington N.Y. 11050
Attn.: Sample Control
Date Shipped: 4/4/95
Carrier: FED-EX
Air Bill #: 4196169854
Cooler #:
C of C #:
SDG #: WOR1
NEI QT #:

Analysis Requested

Lab ID (Lab Use Only)	Sample ID (Maximum of 6 Characters)	Date Sampled	Time Sampled	Sample Location	No. of Containers	VOC - SW8240	SVOC - SW8270	TPH - 418.1	METALS - SW6010	PCBs - SW8080	Nothing Follows	Bin #'s In / Out (For Lab Use Only)
01	1-16-1	4/4/95	0940	01-016BH Int 1	2	✓	✓	✓	✓	✓		
02	1-16-D	4/4/95	0955	01-016BH Int 1 DUP	2	✓	✓	✓	✓	✓		
03	1-16-2	4/4/95	1030	01-016BH Int 2	2	✓	✓	✓	✓	✓		
04	1-17-1	4/4/95	1120	01-017BH Int 1	2	✓	✓	✓	✓	✓		
05	1-17-S	4/4/95	1125-1135	01-017BH Int 1 MS/MSD	4	✓	✓	✓	✓	✓		
06	1-17-D											
07	1-17-2	4/4/95	1150	01-017BH Int 2	2	✓	✓	✓	✓	✓		
08	1-18-1	4/4/95	1310	01-018BH Int 1	2	✓	✓	✓	✓	✓		
09	1-18-2	4/4/95	1345	01-018BH Int 2	2	✓	✓	✓	✓	✓		
10	1-20-1	4/4/93	1405	01-020BH Int 1	2	✓	✓	✓	✓	✓		
11	1-21-1	4/4/93	1430	01-021BH Int 1	2	✓	✓	✓	✓	✓		

100000

Comments

Trip Blank #2 with this shipment. Listed on COC as other ice chest.

Relinquished by	Date / Time	Received by	Date / Time
Earl E Parker II	4/4 95 1610	FEDERAL EXPRESS	4/4 95 1611
Print Name: EARL E PARKER II		Print Name: AIRBILL #: 4196169854	
Relinquished by:	Date / Time	Received by:	Date / Time
Print Name:		Print Name:	
Relinquished by	Date / Time	Received by Laboratory:	Date / Time 4/5/95 0945
Print Name:		Print Name: Paul Pires	

Lab Use Only

Custody Seals: Intact Broken Absent
Sample Rec'd in Good Condition?: Y N
Sample Temperature: 4 Degrees Celcius
INSPECTED BY: PP
COMMENTS:

Special Instructions: Analysis as per SOW and Contract w/ NEI for Worcester Air National Guard Station (which is as outlined above)

nytest environmental.
(516) 625-5500 FAX: (516) 625-1274

Chain of Custody Record

page # : ___ of ___

Client Name: Operational Technologies Corporation
Address: 4100 NW Loop 410, Suite 230, San Antonio Tx 78229
Project Manager: Earl Parker
Phone: (210) 731-0000 FAX: (210) 731-0008
Project Name: Worcester ANGS
Project Number: 1315-199
P.O. #:
Analytical Protocol: As per Contract Deliverables: As per Contract
Sampled By: Earl Parker

Login #: 23490
Ship to: Nytest Environmental Inc., 60 Seaview Blvd, Port Washington N.Y. 11050, Attn.: Sample Control
Date Shipped: 4/4/95
Carrier: FED-EX
Air Bill #: 4196169854
Cooler #:
C of C #:
SDG #: WORI
NEI QT #:

Analysis Requested

Lab ID (Lab Use Only)	Sample ID (Maximum of 6 Characters)	Date Sampled	Time Sampled	Sample Location	No. of Containers	VOC - SW8240	SVOC - SW8270	TPH - 418.1	METAL - SW6010	PCBs - 8080	Nothing Follows	Bin #'s In / Out (For Lab Use Only)
12	FLDBK1	4/4/95	1500	Field Blank #1	8	✓	✓	✓	✓	✓		
13	EQPBK1	4/4/95	1530	Equipment Blank #1	8	✓	✓	✓	✓	✓		
14	TRIP-1	4/4/95	—	Trip Blank #1	1	✓						
15	TRIP-2	4/4/95	—	Trip Blank #2 (other week)	1	✓						
	Nothing Follows											

200002

Comments

Relinquished by	Date / Time	Received by	Date / Time
Earl E Parker II	4/4 95 1610	Federal Express Air Bill # 4196169854	4/4 95 1610
Print Name: Earl E Parker II		Print Name:	
Relinquished by:	Date / Time	Received by:	Date / Time
Print Name:		Print Name:	
Relinquished by:	Date / Time	Received by Laboratory:	Date / Time 4/5/95 0945
Print Name:		Print Name:	

Lab Use Only

Custody Seals: Intact Broken Absent
Sample Rec'd in Good Condition?: Y N
Sample Temperature: 4 Degrees Celcius
INSPECTED BY:
COMMENTS:

Special Instructions: Analysis as per SOW and Contract w/ NEI for Worcester Air National Guard Station (which is as outlined Above)

CLIENT RETAINS YELLOW COPY ONLY

TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental.

(516) 625-5500 FAX: (516) 625-1274

Chain of Custody Record

page # : 1 of 1

Client Name: OPERATIONAL TECHNOLOGIES CORPORATION
Address: 4100 NW LOOP 410, SUITE 230
SAN ANTONIO TX 78229

Project Manager: EARL PARKER
Phone: (210) 731-0000 FAX: (210) 731-0008
Project Name: WORCESTER ANGS
Project Number: 1315-199
P.O. #:
Analytical Protocol: As per Contract Deliverables: As per Contract
Sampled By: Earl Parker

Login #: 23505
Ship to:
Nytest Environmental Inc.
60 Seaview Blvd
Port Washington N.Y. 11050
Attn.: Sample Control
Date Shipped: 4/5/95
Carrier: FED EX
Air Bill #: 4764042323
Cooler #:
C of C #:
SDG #: IWOR1
NEI QT #:

Analysis Requested

Lab ID (Lab Use Only)	Sample ID (Maximum of 6 Characters)	Date Sampled	Time Sampled	Sample Location	No. of Containers	VOC - SW8240	SVOC - SW8270	TPH - 418.1	METALS - SW6010	PCBs - SW8080	NOTHING FOLLOWS	Comments
01		4/5/95	0940	01-023BH Int 1	2	✓	✓	✓	✓	✓		Ice Chest # 021
02		4/5/95	1000	01-022BH Int 1	2	✓	✓	✓	✓	✓		" " "
03		4/5/95	1015	01-022BH Int 1 Duplicate	2	✓	✓	✓	✓	✓		" " "
04		4/5/95	1045	01-019BH Int 1	2	✓	✓	✓	✓	✓		" " "
05		4/5/95	1100	01-019BH Int 2	2	✓	✓	✓	✓	✓		" " "
06		4/5/95	1125	01-024BH Int 1	2	✓	✓	✓	✓	✓		" " "
07		4/5/95	1320	EQUIPMENT BLANK # 2	8	✓	✓	✓	✓	✓		Ice Chest # 8058
08		4/5/95	1350	FIELD BLANK # 2	8	✓	✓	✓	✓	✓		" " "
09		–	–	TRIP BLANK # 3	1	✓						Ice Chest # 8058
10		–	–	TRIP BLANK # 4	1	✓						Ice Chest # 021

Bin #'s In / Out (For Lab Use Only)

00003

Relinquished by	Date / Time	Received by	Date / Time
Earl Parker II (Print Name: EARL PARKER II)	4/5/95 1610	FEDERAL EXPRESS (Print Name: AIRBILL # 4764042323)	4/5/95 1610
Relinquished by: (Print Name:)	Date / Time	Received by: (Print Name:)	Date / Time
Relinquished by: (Print Name:)	Date / Time	Received by Laboratory: (Print Name: [illegible])	Date / Time 4/6/95 1630

Lab Use Only

Custody Seals: Intact Broken Absent
Sample Rec'd in Good Condition? : Y N
Sample Temperature: 3 Degrees Celsius
INSPECTED BY: PT
COMMENTS:

Special Instructions: Analysis as per SOW and Contract with NEI for Worcester Air National Guard Station (which is as outlined above)

Laboratory Deliverable
Check List

		Check if Complete
I.	Cover Page, Format, and Laboratory Certification (Include Cross Reference Table of Field I.D. # and Laboratory I.D. #)	✓
II.	Chain of Custody	✓
III.	Summary Sheets Listing Analytical Results Including QA Data Information	NA
IV.	Laboratory Chronicle and Methodology Summary including Sampling Holding Time Check	✓
V.	Initial Calibration and Continuing Calibration (Time & Date Summary)	✓
VI.	Tune Summary (MS)	✓
VII.	Blanks (Method, Field, Trip)	✓
VIII.	Surrogate Recovery Summary	✓
IX.	Chromatographs Labeled / Compound Identification	✓
X.	Non-Conformance Summary	✓

Laboratory Manager

2/25/95
Date

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

	No	Yes
1. GC/MS Tune Specifications		
a. BFB passed		✓
b. DFTPP passed		✓
2. GC/MS Tuning Frequency - Performed every 12 hours		✓
3. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis (*)	✓	
4. GC/MS Calibration Requirements		
a. Calibration Check Compounds		✓
b. System Performance Check Compounds		✓
5. Blank Contamination - List compounds for each fraction		
a. VOA Fraction Methylene Chloride		
b. B/N Fraction		
c. Acid Fraction		
6. Surrogate Recoveries Meet Criteria (If not met; list those compounds and their recoveries which fall outside the acceptable range)	✓	
a. VOA Fraction		
b. B/N Fraction FBP(40,25) TPH(147,152)		
c. Acid Fraction PHL(6) 2FP(6) 2CP(13)		
7. Extraction Holding Time Met		✓
Comments:		
8. Analysis Holding Time Met		✓
Comments:		

Additional Comments:

(*) 30 days utilized for in-house purposes.

The Method does not dictate the frequency of initial calibration provided CCC and SPCC calibration requirements have been met

Laboratory Manager [signature] Date: 5/25/94

Laboratory Chronicle

Log In No.: 23490
23505

Client Name: Operational Technologies Corporation
Date Received: 04/05/95, 04/06/95
Sample ID: As per chains of custody

Organics Extraction:

1. Acids 04/05/95, 04/06/95, 04/07/95
2. Base/Neutrals 04/05/95, 04/06/95, 04/07/95
3. Pesticides/PCBs 04/05/95, 04/06/95, 04/07/95
4. Dioxin

Analysis:

1. Volatiles 04/06/95, 04/12/95, 04/13/95
2. Acids 04/06/95, 04/12/95, 04/13/95
3. Base/Neutrals 04/11/95, 04/12/95, 04/13/95
4. Pesticides/PCBs
5. Dioxin

Section Supervisor
Review & Approval

Inorganics:

1. Metals
   Digestion - 04/12/95
   Analysis - 04/13/95, 04/14/95, 04/17/95, 04/18/95, 04/20/95, 04/24/95

   Mercury Digestion & Analysis - 04/12/95, 04/17/95

Other Analysis: TPHC - 04/07/95, 04/11/95

Section Supervisor
Review & Approval

Quality Control Supervisor
Review & Approval

If fractions are re-extracted and re-analyzed include dates for both.

NARRATIVE DISCUSSION
VOLATILES - 23490, 23505

SDG NO. WOR1

INTRODUCTION

This narrative covers the analysis of twenty three (23) samples in accordance with protocols based on SW-846 Method 8240.

HOLDING TIMES

The analytical holding time for this analysis was met.

CALIBRATIONS

All required minimum RRFs and maximum %RSD initial calibration requirements have been met in accordance with the method.

All required minimum RRFs and maximum %D continuing calibration requirements have been met in accordance with the method.

METHOD BLANKS

The method blanks associated with these samples met all method requirements.

SURROGATES

All surrogate recoveries met QC criteria.

MATRIX SPIKES

Sample 1-17-1 was utilized in the MS/MSD series. All spike recoveries and RPD values fell within the advisory QC limits.

INTERNAL STANDARDS

Although internal standard area response/retention time summaries are not required, all samples yielded area responses and retention times which fell within an acceptable range.

SAMPLE COMMENTS

The concentration of Xylenes exceeded the highest calibration standard in sample 1-16-2. Reanalysis was performed at a dilution. Both sets of data are included. The concentration of this compound should be taken from the diluted analysis.

No other analytical problems were encountered.

NARRATIVE DISCUSSION
SEMIVOLATILES - 23490, 23505

SDG NO. WOR1

INTRODUCTION

This narrative covers the analysis of four (4) aqueous samples and fifteen (15) soil samples in accordance with protocols based on SW-846 Method 8270.

HOLDING TIMES

The extraction and analytical holding times for this analysis were met.

CALIBRATIONS

Required minimum RRFs and maximum %RSD initial calibration requirements have been met in accordance with the method.

Required minimum RRFs and maximum %D continuing calibration requirements have been met in accordance with the method.

METHOD BLANKS

The method blanks associated with these samples met all method requirements.

SURROGATES

Samples met surrogate QC criteria, with the exception of EQPBK1 which showed low recoveries. Reextraction is being performed and results will follow under a separate cover.

MATRIX SPIKES

Sample 1-17-1 was utilized in the low soil MS/MSD series. Nineteen (19) of twenty two (22) spike recoveries and eight (8) of eleven (11) RPD values fell within advisory QC limits.

Note, the MSD showed inconsistent results from the unspiked sample and the MS. Due to sample extract viscosity, the MSD was concentrated to a 10ml final volume. Analysis, of the MSD, showed high concentrations of target and non-target analytes which were not present in the unspiked and matrix spike analyses.

INTERNAL STANDARDS

Although internal standard area response/retention time summaries are not required, all area responses and retention times fell within an acceptable range.

SAMPLE COMMENTS

Due to the viscous nature of the sample extracts, 1-16-2, 1-18-1 and 1-18-2 were concentrated to 10ml final volumes.

Due to sample extract viscosity, 1-18-2, 1-22-1D, 1-19-1 and 1-19-2 required (additional) dilutions for analysis.

Although no target analytes were detected in sample 1-18-2, a more concentrated analysis could not be performed.

No other analytical problems were encountered.

NARRATIVE DISCUSSION
PCBs - 23490, 23505

Surrogates

The recovery of TCX was slightly below the advisory QC limits for sample 1-17-2 and 1-20-1 (57% and 55% respectively). All other recoveries met QC criteria.

Matrix Spike / Matrix Spike Duplicate (MS/MSD)

Sample 1-17-1 was utilized for the MS/MSD. All spike recoveries and RPD values were within QC limits.

Method Blanks

No target compounds were detected in the method blanks.

Calibrations

The initial and continuing calibrations passed QC criteria.

Samples

All samples were analyzed as per SW-846 Method 8080. No further analytical problems were encountered.

c:\wp51\cns\ac

METHODOLOGY SUMMARY

AQUEOUS METHODOLOGIES:	REF 1	REF 2	REF 3	REF 5
BNA, Pesticides/PCB's Extraction		3510/3520		
AA/ICP Sample Preparation	200.7			
Furnace Sample Preparation	200.0			
Mercury Sample Preparation	245.1			
Hexavalent Chromium Sample Preparation	218.5			
Clean-Up		3610/3620/3630/ 3640/3660		
Organochlorine Pesticide and PCB's by Gas Chromatography			608	505
Herbicides by Gas Chromatography			362	515.1
Purgeable Organics by GC/MS			624	524.2
Base/Neutral, Acids by GC/MS			625	525
2,3,7,8-TCDD by GC/MS			613/625	
BTEX			602	502.2
EDB/DBCP by Microextraction				504.1

NON-AQUEOUS METHODOLOGIES:	
BNA, Pesticides/PCB's Extraction	3550
AA/ICP Sample Preparation	3050
Furnace Sample Preparation	3020/3030/3050
Mercury Sample Preparation	7471
Clean-Up	3610/3620/3630/ 3640/3660

GC, Gas Chromatography/Mass Spectrometry:	
Purgeable Organics	8240/8021
Base/Neutral and Acid Extractables	8270
Organophosphorus Pesticides	8140
Organochlorine Pesticide and PCB's by Gas Chromatography	8080
BTEX	8020
Halogenated Purgeable Organics	8010

METHODOLOGY SUMMARY

INDUCTIVELY COUPLED PLASMA (ICP):	REFERENCE 1	REFERENCE 2
Aluminum	200.7	6010
Antimony	200.7	6010
Barium	200.7	6010
Beryllium	200.7	6010
Cadmium	200.7	6010
Calcium	200.7	6010
Chromium	200.7	6010
Cobalt	200.7	6010
Copper	200.7	6010
Iron	200.7	6010
Lead	200.7	6010
Magnesium	200.7	6010
Manganese	200.7	6010
Molybdenum	200.7	6010
Nickel	200.7	6010
Potassium	200.7	6010
Silver	200.7	6010
Sodium	200.7	6010
Tin	200.7	6010
Titanium	200.7	6010
Vanadium	200.7	6010
Zinc	200.7	6010
FURNACE AA:		
Antimony	204.1	7041
Arsenic	206.2	7060
Lead	239.2	7421
Selenium	270.2	7740
Thallium	279.2	7841
Tin	282.2	
Vanadium	286.2	7911
Mercury	245.1	7470/7471
ICAP:		
Priority Pollutants	200.7	6010/7060/ 7470/7740
TAL Metals	200.7	6010/7060/ 7470/7740
RCRA Metals	200.7	6010/7060/ 7470/7740

METHODOLOGY SUMMARY

ADDITIONAL INORGANIC PARAMETERS:	REFERENCE 1	REFERENCE 2
Biochemical Oxygen Demand	405.1	
Bromide	320.1	
Color	110.2	
Conductance	120.1	
Conductance		9050
Odor	140.1	
pH	150.1	
pH		9045/9040/9041
TDS	160.1	
TSS	160.2	
TS	160.3	
Hardness	130.1	
Temperature	170.1	
Turbidity	180.1	
Acidity	305.1	
Alkalinity	310.1	
Ammonia	350.2/350.3	
Chloride	325.3	
Chloride		9252
Residual Chlorine	330.2	
COD	410.3/410.4	
Cyanide (Total & Amenable)	335.3/335.1	9010/9012
Oil & Grease	413.1/413.2	
Oil & Grease		9070/9071
Fluoride	340.2	
TKN	351.2	
NO2/NO3	353.2	9200
D.O	360.2	
Petroleum Hydrocarbons (Reference 4)	418.1	9066
Phenol	420.2	
Phosphorus	365.1	
Settleable Solids	160.5	
Silica	370.1	
Sulfate	375.2/375.4	9038
Sulfide	376.1	9030
Surfactants	425.1	
TOC	415.1	9060
TOX		9020

MISCELLANEOUS ANALYSIS:	
Extraction Procedure Toxicity	1310
Ignitability	1010
Corrosivity	1110
Reactivity	Chapter 8.3
Paint Filter Liquid Test	9095
Toxicity Characteristic Leaching Procedure (TCLP)	(REF 4)
Cation Exchange Capacity of Soils	9080

METHODOLOGY SUMMARY

	REFERENCE 6
Total Coliform	909A
Fecal Coliform	9096
Fecal Streptococcus Coliform	910B
Standard Plate Count	907
Hexavalent Chromium	312B
Carbonaceous BOD	507

METHODOLOGY SUMMARY

REFERENCES:

(1) USEPA-600/4-79-020, Methods for Chemical Analysis of Water and Waste

(2) USEPA SW 846, Test Methods for Evaluating Solid Waste, Third Edition

(3) Federal Register 40 CFR Part 136, Vol.49, No.209 Test Parameters for the Analysis of Pollutants

(4) Federal Register Vol.51, No.216 Friday, 11/7/86, pp.40643-40652

(5) Method for the Determination of Organic Compounds in Drinking Water, EPA 500/4-88/039, Dec. 1988

(6) Standard Method for Examination of Water and Wastewater, 15 Edition 1980

Method Qualifiers for Organic Non-CLP Methodologies

Q Qualifier - Specified entries and their meanings as follows:

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit is corrected for dilutions and for the moisture content for soil samples. If a sample extract can not be concentrated to the protocol - specific volume, this fact is also accounted for in reporting the sample quantitation limit. The number is the minimum detected limits for the sample.

J - Indicates an estimated volume. The flag is used either when estimating concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

N - Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the **N** code is not used.

B - This flag is used when the analyte is found in the analyte is found in the associated blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound.

E - This flag identifies compounds whose concentrations exceeded the calibration range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

A - This flag indicates that a TIC is a suspected aldol condensation product.

Method Qualifiers for Inorganics

* C (Concentration) qualifier -- Enter "B" if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" must be entered.

* Q qualifier -- Specified entries and their meanings are as follows:

  E - The reported value is estimated because of the presence of interference.

  M - Duplicate precision not met (CV > 20%).

  N - Spiked sample recovery not within control limits.

  S - The reported value was determined by Method of Standard Addition (MSA).

  W - Post-digestion spike for Furnace AA analysis is out of control limits (85 - 115%), while sample absorbance is less than 50% of spike absorbance.

  * - Duplicate analysis not within control limits.

  + - Correlation Coefficient for the MSA is less than 0.995.

  Entering "S", "W" or "+" is mutually exclusive.

* M (Method) qualifier - enter:

  - "P" for ICP
  - "A" for Flame AA
  - "F" for Furnace AA
  - "CV" for Cold Vapor AA
  - "AV" for Automated Cold Vapor AA
  - "AS" for Semi-Automated Spectrophotometric
  - "C" for Manual Spectrophotometric
  - "T" for Titrimetric
  - "NR" if the analyte is not required to be analyzed.

VOLATILE DATA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-16-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2349001

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4179.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 5 Data Analyzed: 04/05/95

Column: (pack/cap) CAP Dilution Factor: 1.0

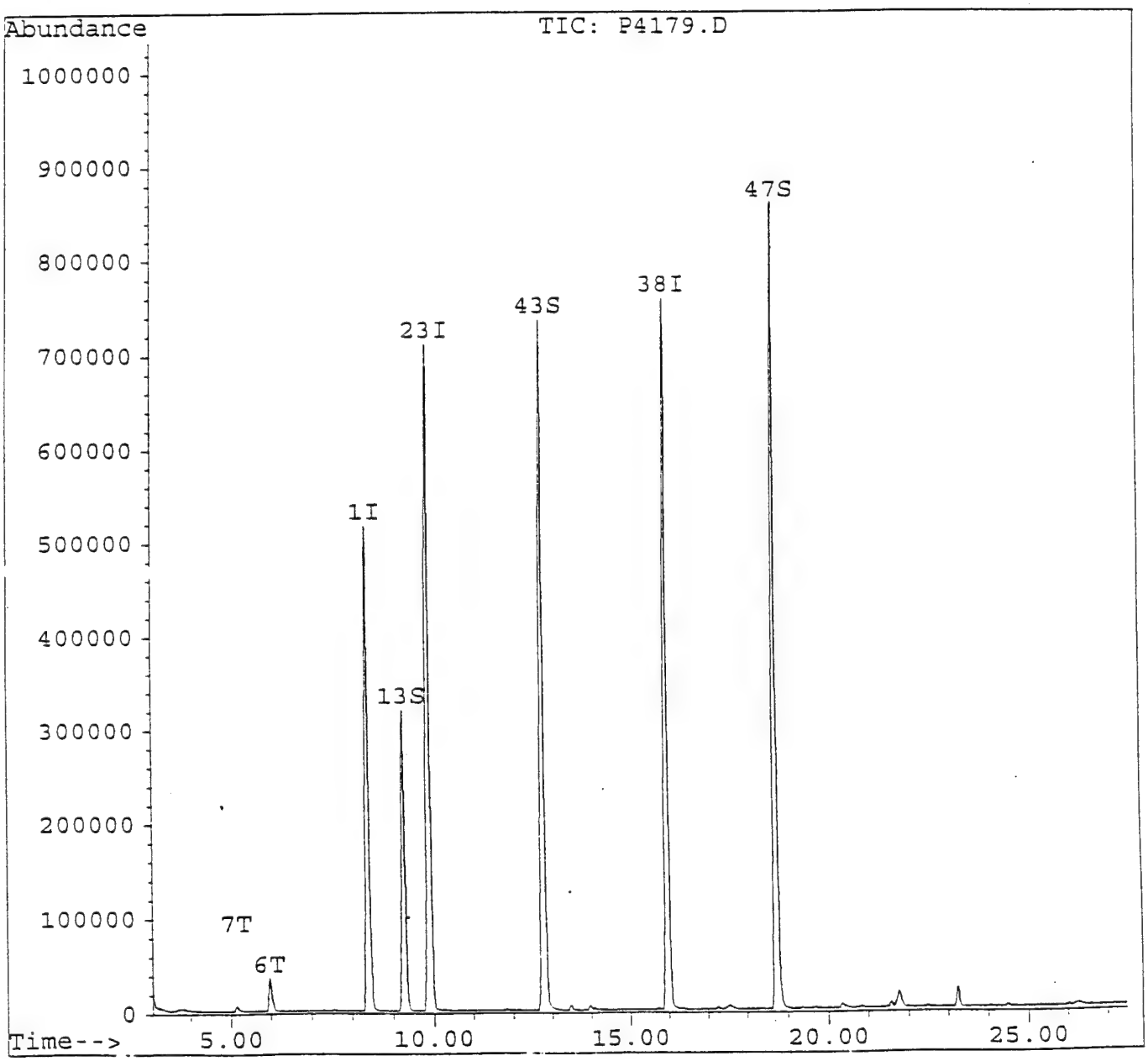
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	JB
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0405\P4179.D
Acq On : 5 Apr 95 17:02 pm
Sample : 2349001,1-16-1,
Misc : 1,,5,,5,5,LOW,SOIL,R4-5-95,
Quant Time: Apr 5 17:30 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 05 10:31:23 1995
Response via : Single Level Calibration



000003

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0405\P4179.D
Acq On : 5 Apr 95 17:02 pm
Sample : 2349001,1-16-1,
Misc : 1,,5,,5,5,LOW,SOIL,R4-5-95,
Quant Time: Apr 5 17:30 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 05 10:31:23 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0405\P4167.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.39	128	402894	50.00 ug/l	0.00
23) CI10 1,4-Difluorobenzene	9.89	114	1839988	50.00 ug/l	0.00
38) CI20 Chlorobenzene-d5	15.97	117	1364981	50.00 ug/l	0.00
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	9.26	65	629768	50.72 ug/l	101.43%
43) CS05 Toluene-d8	12.78	98	1644255	50.23 ug/l	100.46%
47) CS10 4-Bromofluorobenzene	18.72	95	1107067	48.86 ug/l	97.73%
Target Compounds					Qvalue
6) C030 Methylene Chloride	5.96	84	44882	3.79 ug/l	99
7) C035 Acetone	5.15	43	24696	6.33 ug/l	78

000004

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-16-D

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2349002

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4180.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 4 Data Analyzed: 04/05/95

Column: (pack/cap) CAP Dilution Factor: 1.0

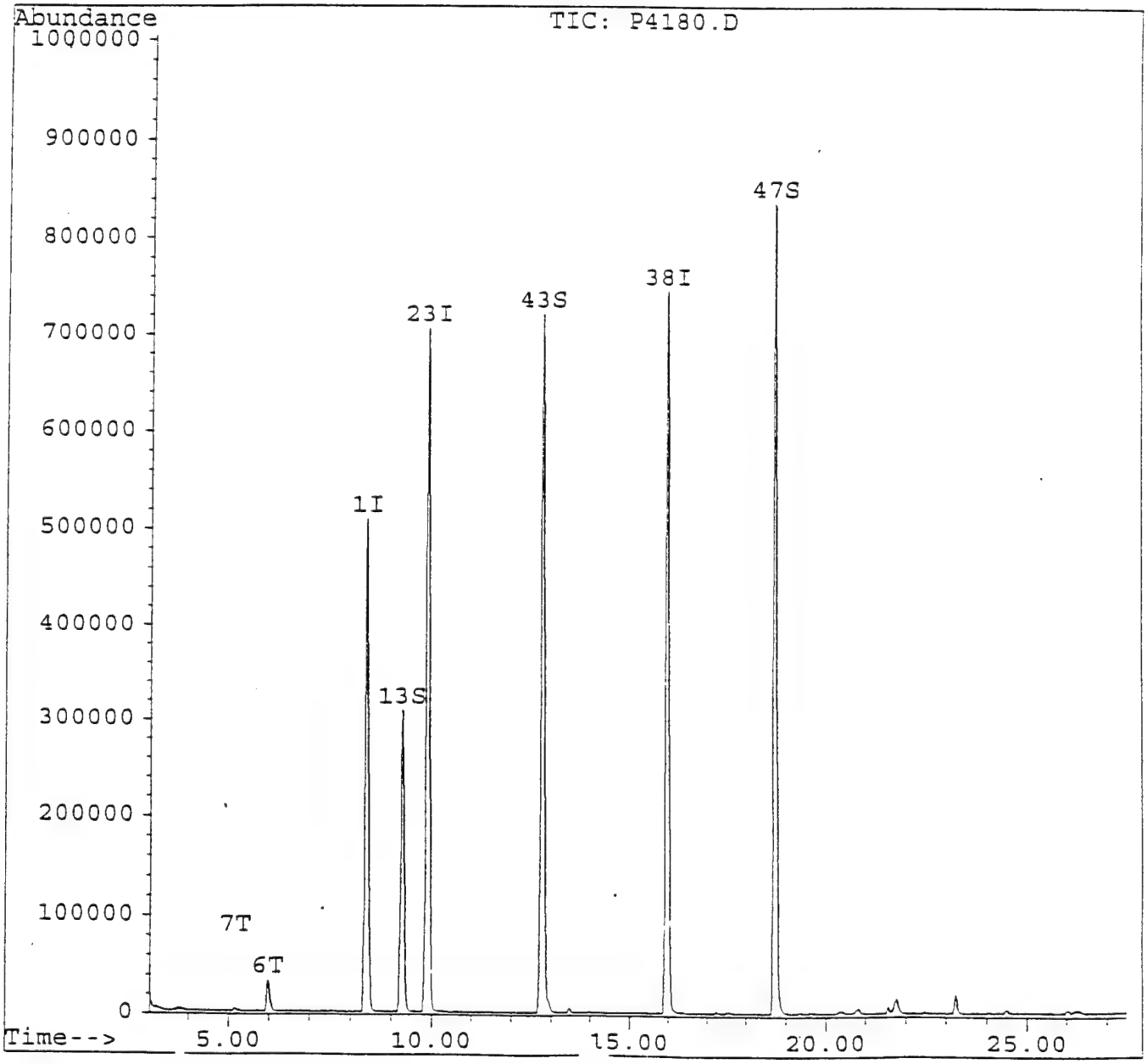
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	JB
67-64-1	Acetone	4	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0405\P4180.D
Acq On : 5 Apr 95 17:35 pm
Sample : 2349002,1-16-D,
Misc : 1,,4,,5,5,LOW,SOIL,R4-5-95,
Quant Time: Apr 5 18:03 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 05 10:31:23 1995
Response via : Single Level Calibration



000006

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0405\P4180.D
Acq On : 5 Apr 95 17:35 pm
Sample : 2349002,1-16-D,
Misc : 1,,4,,5,5,LOW,SOIL,R4-5-95,
Quant Time: Apr 5 18:03 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 05 10:31:23 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0405\P4167.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.39	128	394488	50.00 ug/l	0.00
23) CI10 1,4-Difluorobenzene	9.89	114	1827096	50.00 ug/l	0.00
38) CI20 Chlorobenzene-d5	15.97	117	1333098	50.00 ug/l	0.00
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	9.25	65	608028	50.01 ug/l	100.02%
43) CS05 Toluene-d8	12.77	98	1616390	50.56 ug/l	101.12%
47) CS10 4-Bromofluorobenzene	18.72	95	1067511	48.24 ug/l	96.49%
Target Compounds					Qvalue
6) C030 Methylene Chloride	5.97	84	41114	3.54 ug/l	97
7) C035 Acetone	5.16	43	15217	3.98 ug/l	78

000007

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-16-2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2349003

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4181.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 9 Data Analyzed: 04/05/95

Column: (pack/cap) CAP Dilution Factor: 1.0

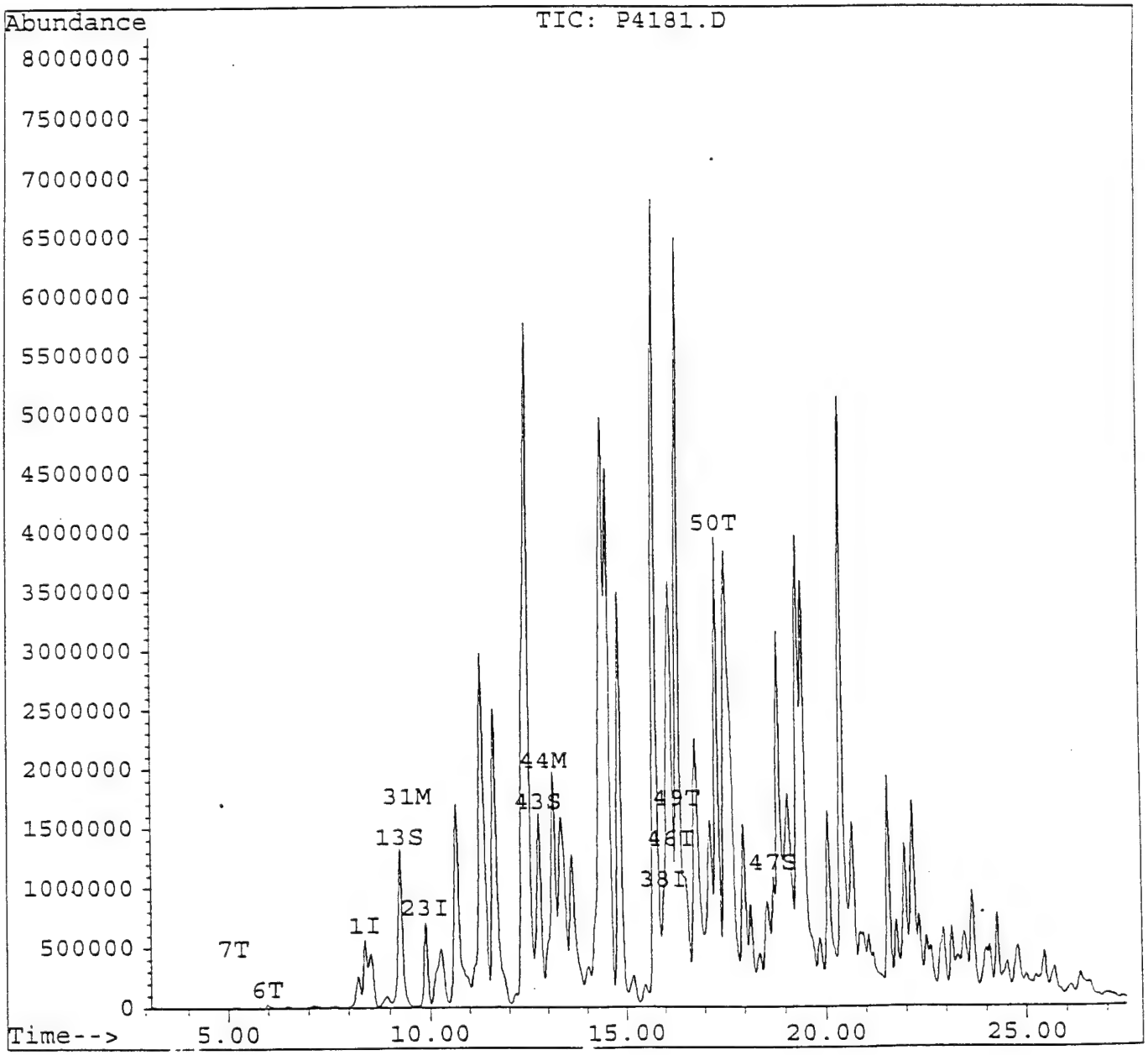
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	4	JB
67-64-1	Acetone	16	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	2	J
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	7	J
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	130	
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	870	E
108-05-4	Vinyl Acetate	11	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0405\P4181.D
Acq On : 5 Apr 95 18:07 pm
Sample : 2349003,1-16-2,
Misc : 1,,9,,5,5,LOW,SOIL,R4-5-95,
Quant Time: Apr 6 8:17 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 05 10:31:23 1995
Response via : Single Level Calibration



000009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0405\P4181.D
Acq On : 5 Apr 95 18:07 pm
Sample : 2349003,1-16-2,
Misc : 1,,9,,5,5,LOW,SOIL,R4-5-95,
Quant Time: Apr 6 8:17 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 05 10:31:23 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0405\P4167.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.39	128	364445	50.00 ug/l	0.01
23) CI10 1,4-Difluorobenzene	9.88	114	1609336	50.00 ug/l	0.00
38) CI20 Chlorobenzene-d5	15.97	117	1066131	50.00 ug/l	0.01
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	9.27	65	580832	51.71 ug/l	103.42%
43) CS05 Toluene-d8	12.78	98	1405171	54.96 ug/l	109.92%
47) CS10 4-Bromofluorobenzene	18.74	95	967186	54.66 ug/l	109.31%
Target Compounds					Qvalue
6) C030 Methylene Chloride	5.97	84	39639	3.70 ug/l	91
7) C035 Acetone	5.14	43	52498	14.87 ug/l	84
31) C165 Benzene	9.47	78	43920	1.71 ug/l	100
44) C230 Toluene	12.94	91	169794	6.63 ug/l	98
46) C240 Ethylbenzene	16.18	106	1133612	122.04 ug/l	96
49) C250 M-P, Xylene	16.35	106	5918806	526.97 ug/l	98
50) C255 O-Xylene	17.33	106	3008177	267.83 ug/l	98

000010

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-16-2DL

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2349003

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4199.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 9 Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 5.0

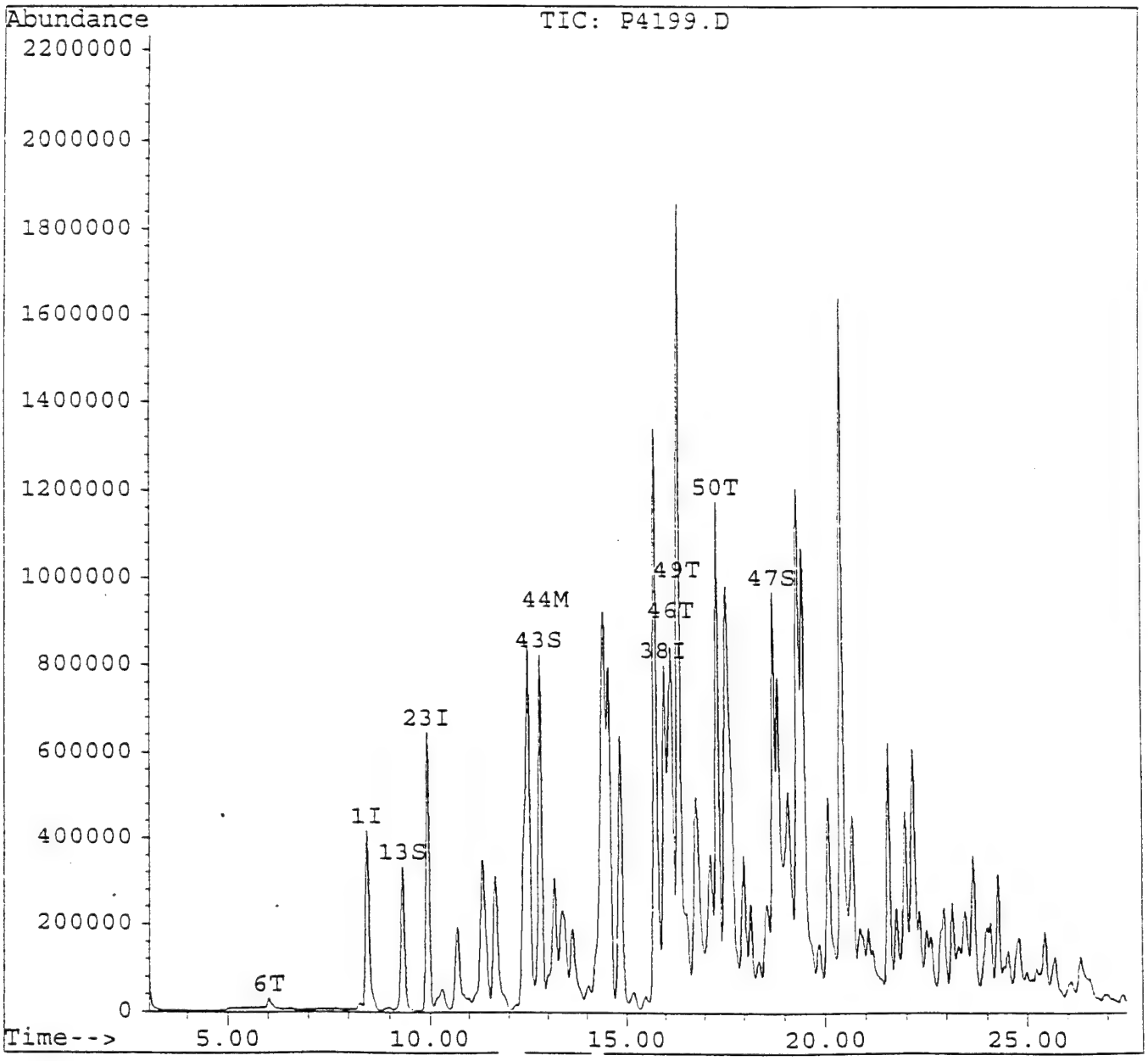
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	55	U
74-83-9	Bromomethane	55	U
75-01-4	Vinyl Chloride	55	U
75-00-3	Chloroethane	55	U
75-09-2	Methylene Chloride	14	JBD
67-64-1	Acetone	55	U
75-15-0	Carbon Disulfide	55	U
75-35-4	1,1-Dichloroethene	55	U
75-34-3	1,1-Dichloroethane	55	U
540-59-0	1,2-Dichloroethene (total)	55	U
67-66-3	Chloroform	55	U
107-06-2	1,2-Dichloroethane	55	U
78-93-3	2-Butanone	55	U
71-55-6	1,1,1-Trichloroethane	55	U
56-23-5	Carbon Tetrachloride	55	U
75-27-4	Bromodichloromethane	55	U
78-87-5	1,2-Dichloropropane	55	U
10061-01-5	cis-1,3-Dichloropropene	55	U
79-01-6	Trichloroethene	55	U
124-48-1	Dibromochloromethane	55	U
79-00-5	1,1,2-Trichloroethane	55	U
71-43-2	Benzene	55	U
10061-02-6	trans-1,3-Dichloropropene	55	U
75-25-2	Bromoform	55	U
108-10-1	4-Methyl-2-Pentanone	55	U
591-78-6	2-Hexanone	55	U
127-18-4	Tetrachloroethene	55	U
79-34-5	1,1,2,2-Tetrachloroethane	55	U
108-88-3	Toluene	10	JD
108-90-7	Chlorobenzene	55	U
100-41-4	Ethylbenzene	160	D
100-42-5	Styrene	55	U
1330-20-7	Xylene (total)	1100	D
108-05-4	Vinyl Acetate	55	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4199.D
Acq On : 6 Apr 95 13:30 pm
Sample : 2349003,1-16-2DL,
Misc : 5,,9,,1,5,LOW,SOIL,R4-3-95,
Quant Time: Apr 6 14:11 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 08 12:24:42 1995
Response via : Single Level Calibration



000012

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4199.D
Acq On : 6 Apr 95 13:30 pm
Sample : 2349003,1-16-2DL,
Misc : 5,,9,,1,5,LOW,SOIL,R4-3-95,
Quant Time: Apr 6 14:11 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 09:11:16 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0406\P4191.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.45	128	315880	50.00 ug/l	0.08
23) CI10 1,4-Difluorobenzene	9.94	114	1642655	50.00 ug/l	0.06
38) CI20 Chlorobenzene-d5	15.98	117	1277850	50.00 ug/l	0.03
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	9.32	65	509630	56.33 ug/l	112.67%
43) CS05 Toluene-d8	12.80	98	1518805	50.45 ug/l	100.90%
47) CS10 4-Bromofluorobenzene	18.74	95	1194078	57.24 ug/l	114.48%
Target Compounds					Qvalue
6) C030 Methylene Chloride	6.02	84	25465	2.61 ug/l #	86
44) C230 Toluene	12.97	91	53357	1.81 ug/l	99
46) C240 Ethylbenzene	16.18	106	311831	28.60 ug/l	95
49) C250 M-P, Xylene	16.35	106	1724585	133.41 ug/l	99
50) C255 O-Xylene	17.33	106	945481	73.14 ug/l	100

000013

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-17-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2349004

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4196.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 3 Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

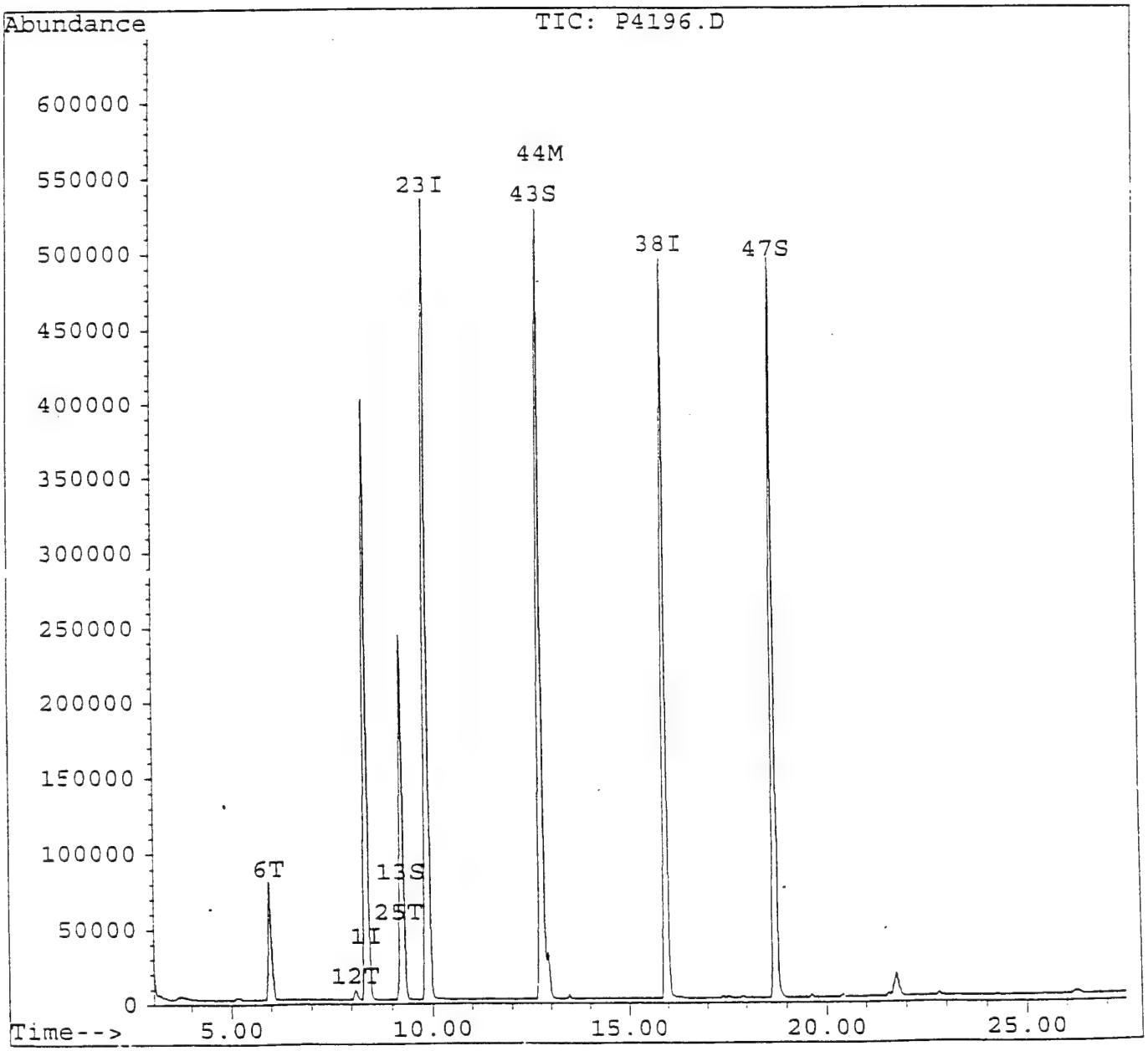
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	2	J
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	4	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4196.D
Acq On : 6 Apr 95 11:53 am
Sample : 2349004,1-17-1,
Misc : 1,,3,,5,5,LOW,SOIL,R4-3-95,
Quant Time: Apr 6 12:24 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 08 12:24:42 1995
Response via : Single Level Calibration



000015

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4196.D
Acq On : 6 Apr 95 11:53 am
Sample : 2349004,1-17-1,
Misc : 1,,3,,5,5,LOW,SOIL,R4-3-95,
Quant Time: Apr 6 12:24 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 09:11:16 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0406\P4191.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.38	128	316172	50.00 ug/l	0.00
23) CI10 1,4-Difluorobenzene	9.88	114	1409968	50.00 ug/l	0.00
38) CI20 Chlorobenzene-d5	15.96	117	904414	50.00 ug/l	0.00
System Monitoring Compounds					**%Recovery**
13) CS15 1,2-Dichloroethane-d4	9.24	65	449502	49.64 ug/l	99.28%
43) CS05 Toluene-d8	12.76	98	1190714	55.89 ug/l	111.77%
47) CS10 4-Bromofluorobenzene	18.71	95	639162	43.29 ug/l	86.58%
Target Compounds					**Qvalue**
6) C030 Methylene Chloride	5.96	84	100553	10.28 ug/l	93
12) C060 Chloroform	8.10	83	19284	1.14 ug/l	95
25) C120 Carbon Tetrachloride	9.18	117	21150	1.61 ug/l	93
44) C230 Toluene	12.93	91	76294	3.66 ug/l	99

000016

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-17-2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2349007

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4185.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 8 Data Analyzed: 04/05/95

Column: (pack/cap) CAP Dilution Factor: 1.0

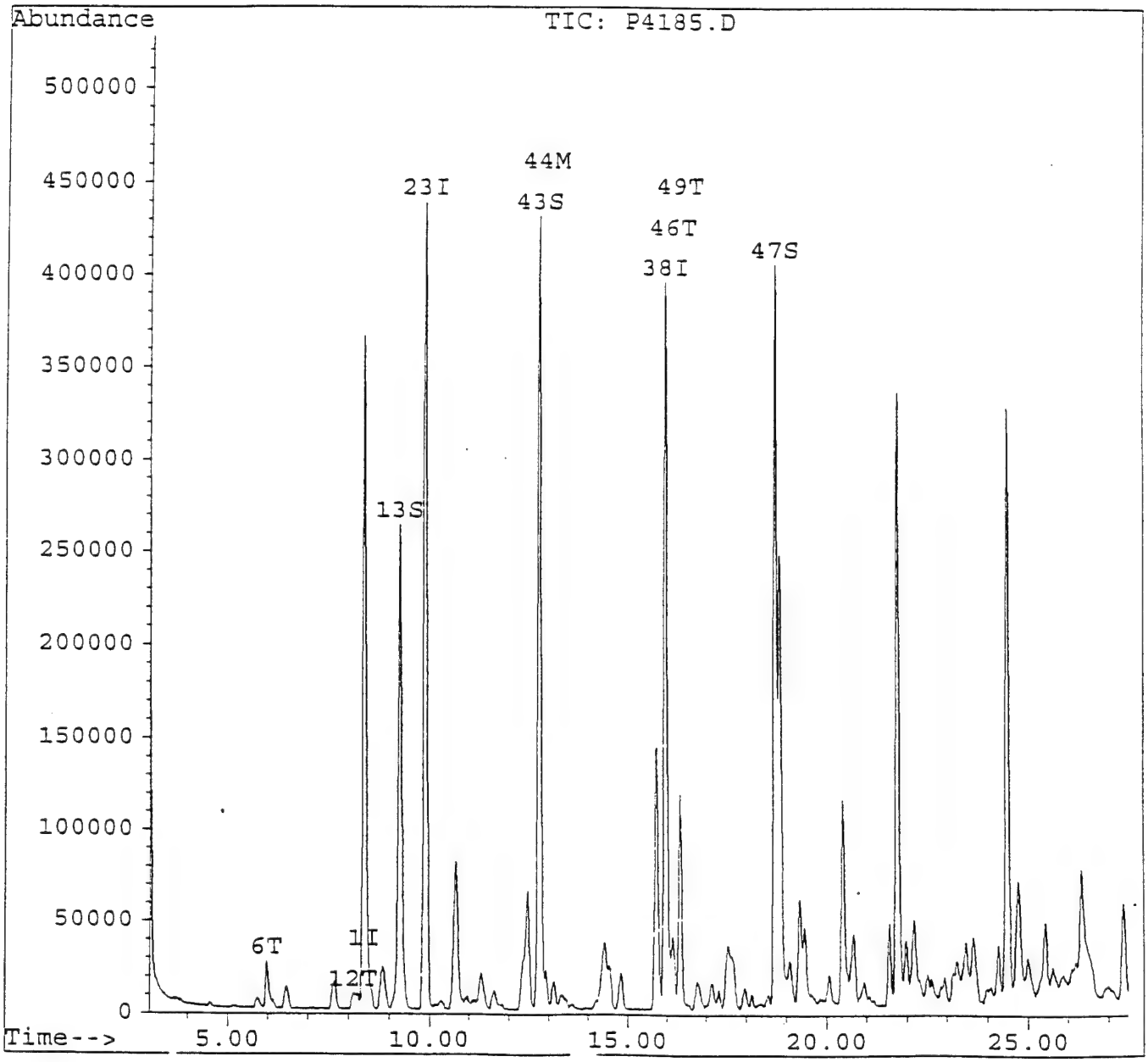
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	4	JB
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	2	J
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	4	J
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	16	
108-05-4	Vinyl Acetate	11	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0405\P4185.D
Acq On : 5 Apr 95 20:17 pm
Sample : 2349007,1-17-2,
Misc : 1,,8,,5,5,LOW,SOIL,R4-5-95,
Quant Time: Apr 6 8:23 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 05 10:31:23 1995
Response via : Single Level Calibration



000018

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0405\P4185.D
Acq On : 5 Apr 95 20:17 pm
Sample : 2349007,1-17-2,
Misc : 1,,8,,5,5,LOW,SOIL,R4-5-95,
Quant Time: Apr 6 8:23 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 05 10:31:23 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0405\P4167.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.38	128	278369	50.00 ug/l	0.00
23) CI10 1,4-Difluorobenzene	9.88	114	1114061	50.00 ug/l	0.00
38) CI20 Chlorobenzene-d5	15.96	117	710006	50.00 ug/l	0.00
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	9.25	65	420612	49.03 ug/l	98.05%
43) CS05 Toluene-d8	12.77	98	932114	54.75 ug/l	109.49%
47) CS10 4-Bromofluorobenzene	18.72	95	516226	43.80 ug/l	87.61%
Target Compounds					Qvalue
6) C030 Methylene Chloride	5.96	84	32268	3.94 ug/l	95
12) C060 Chloroform	8.11	83	23023	1.41 ug/l	91
44) C230 Toluene	12.93	91	51797	3.04 ug/l	95
46) C240 Ethylbenzene	16.15	106	20672	3.34 ug/l	94
49) C250 M-P, Xylene	16.33	106	113046	15.11 ug/l	99

000019

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-18-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2349008

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4186.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 5 Data Analyzed: 04/05/95

Column: (pack/cap) CAP Dilution Factor: 1.0

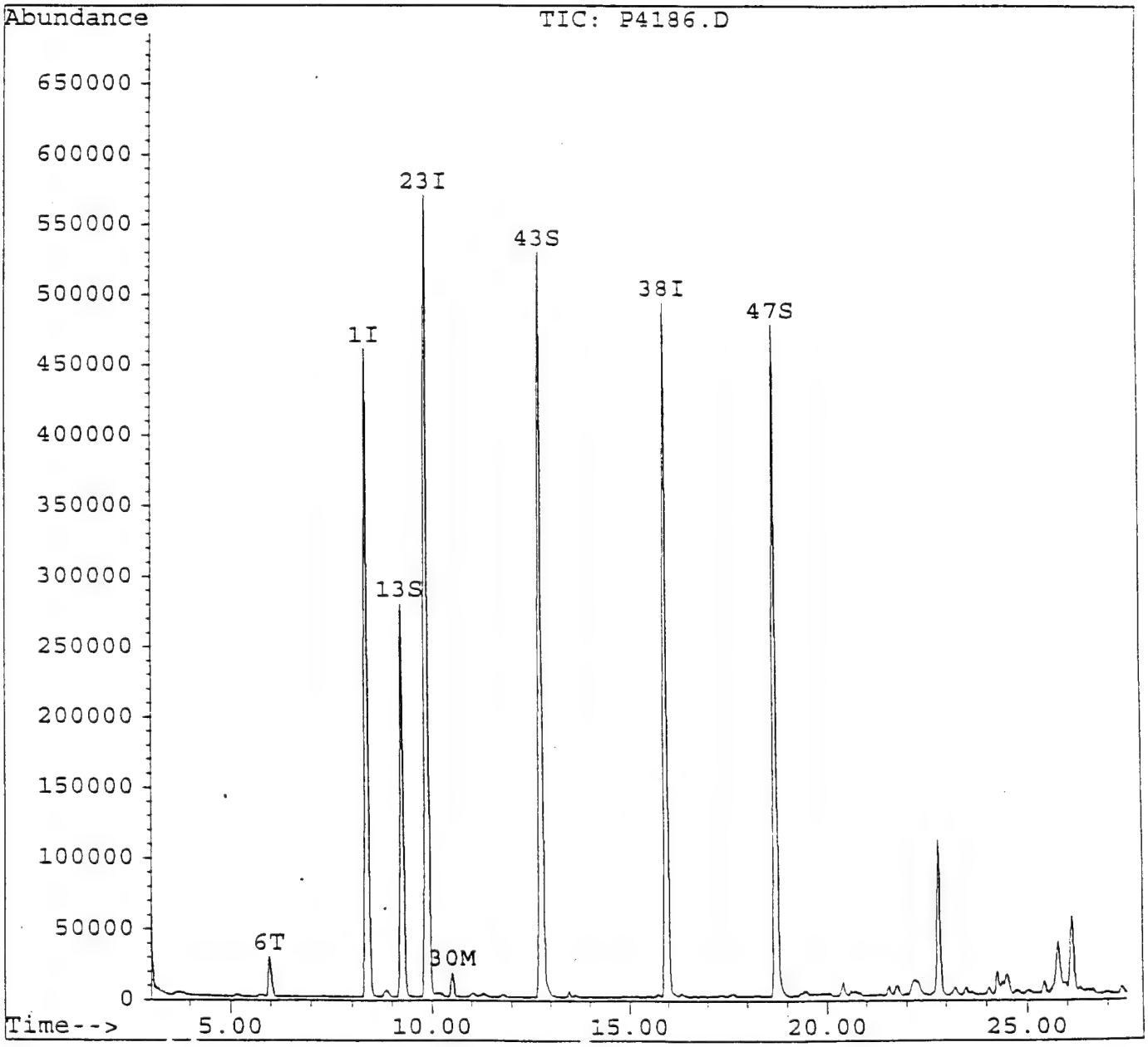
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	2	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0405\P4186.D
Acq On : 5 Apr 95 20:50 pm
Sample : 2349008,1-18-1,
Misc : 1,,5,,5,5,LOW,SOIL,R4-5-95,
Quant Time: Apr 6 8:24 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 05 10:31:23 1995
Response via : Single Level Calibration



000021

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0405\P4186.D
Acq On : 5 Apr 95 20:50 pm
Sample : 2349008,1-18-1,
Misc : 1,,5,,5,5,LOW,SOIL,R4-5-95,
Quant Time: Apr 6 8:24 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 05 10:31:23 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0405\P4167.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min
1) CI01 Bromochloromethane	8.38	128	356190	50.00 ug/l	0.00
23) CI10 1,4-Difluorobenzene	9.88	114	1480389	50.00 ug/l	0.00
38) CI20 Chlorobenzene-d5	15.96	117	890212	50.00 ug/l	0.00
System Monitoring Compounds					**%Recovery**
13) CS15 1,2-Dichloroethane-d4	9.25	65	524654	47.79 ug/l	95.58%
43) CS05 Toluene-d8	12.77	98	1182610	55.40 ug/l	110.79%
47) CS10 4-Bromofluorobenzene	18.72	95	608658	41.19 ug/l	82.38%
Target Compounds					**Qvalue**
6) C030 Methylene Chloride	5.96	84	37073	3.54 ug/l	97
30) C150 Trichloroethene	10.51	130	20857	1.93 ug/l	88

000022

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-18-2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2349009

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4187.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 8 Data Analyzed: 04/05/95

Column: (pack/cap) CAP Dilution Factor: 1.0

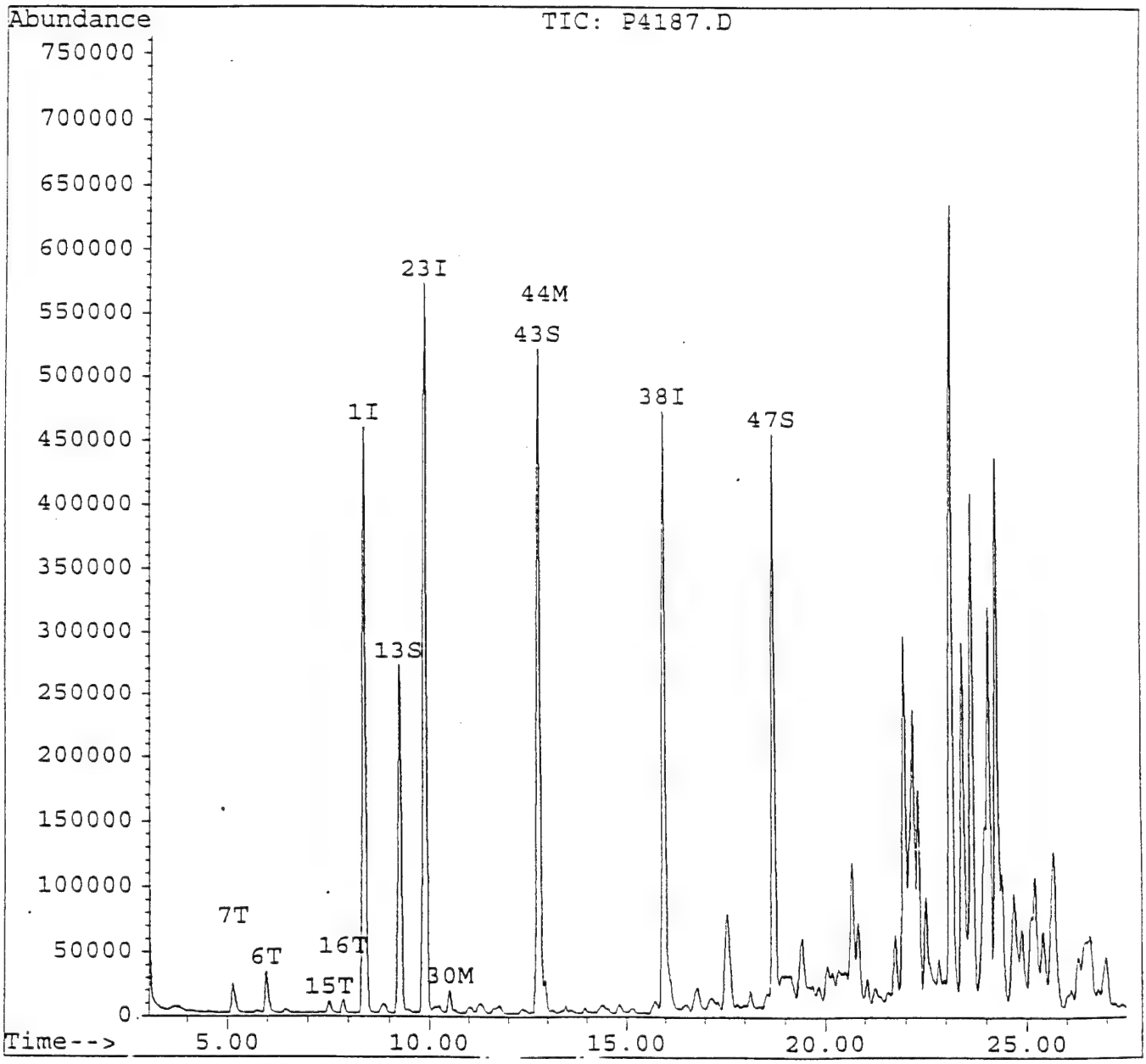
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	4	JB
67-64-1	Acetone	31	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	1	J
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	10	J
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	2	J
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U
108-05-4	Vinyl Acetate	11	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0405\P4187.D
Acq On : 5 Apr 95 21:22 pm
Sample : 2349009,1-18-2,
Misc : 1,,8,,5,5,LOW,SOIL,R4-5-95,
Quant Time: Apr 5 21:50 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 05 10:31:23 1995
Response via : Single Level Calibration



000024

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0405\P4187.D
Acq On : 5 Apr 95 21:22 pm
Sample : 2349009,1-18-2,
Misc : 1,,8,,5,5,LOW,SOIL,R4-5-95,
Quant Time: Apr 5 21:50 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 05 10:31:23 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0405\P4167.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.38	128	358362	50.00 ug/l	0.00
23) CI10 1,4-Difluorobenzene	9.87	114	1474715	50.00 ug/l	-0.01
38) CI20 Chlorobenzene-d5	15.95	117	854648	50.00 ug/l	-0.01
System Monitoring Compounds					**%Recovery**
13) CS15 1,2-Dichloroethane-d4	9.24	65	513720	46.51 ug/l	93.02%
43) CS05 Toluene-d8	12.76	98	1147866	56.01 ug/l	112.01%
47) CS10 4-Bromofluorobenzene	18.72	95	565532	39.87 ug/l	79.73%
Target Compounds					**Qvalue**
6) C030 Methylene Chloride	5.96	84	41698	3.96 ug/l	98
7) C035 Acetone	5.13	43	98882	28.48 ug/l	86
15) C110 2-Butanone	7.52	43	45028	9.43 ug/l #	91
16) C055 Cis, 1,2-dichloroethe	7.87	96	14391	1.31 ug/l	92
30) C150 Trichloroethene	10.51	130	20897	1.95 ug/l	93
44) C230 Toluene	12.93	91	58815	2.86 ug/l	98

000025

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-20-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2349010

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4197.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 10 Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

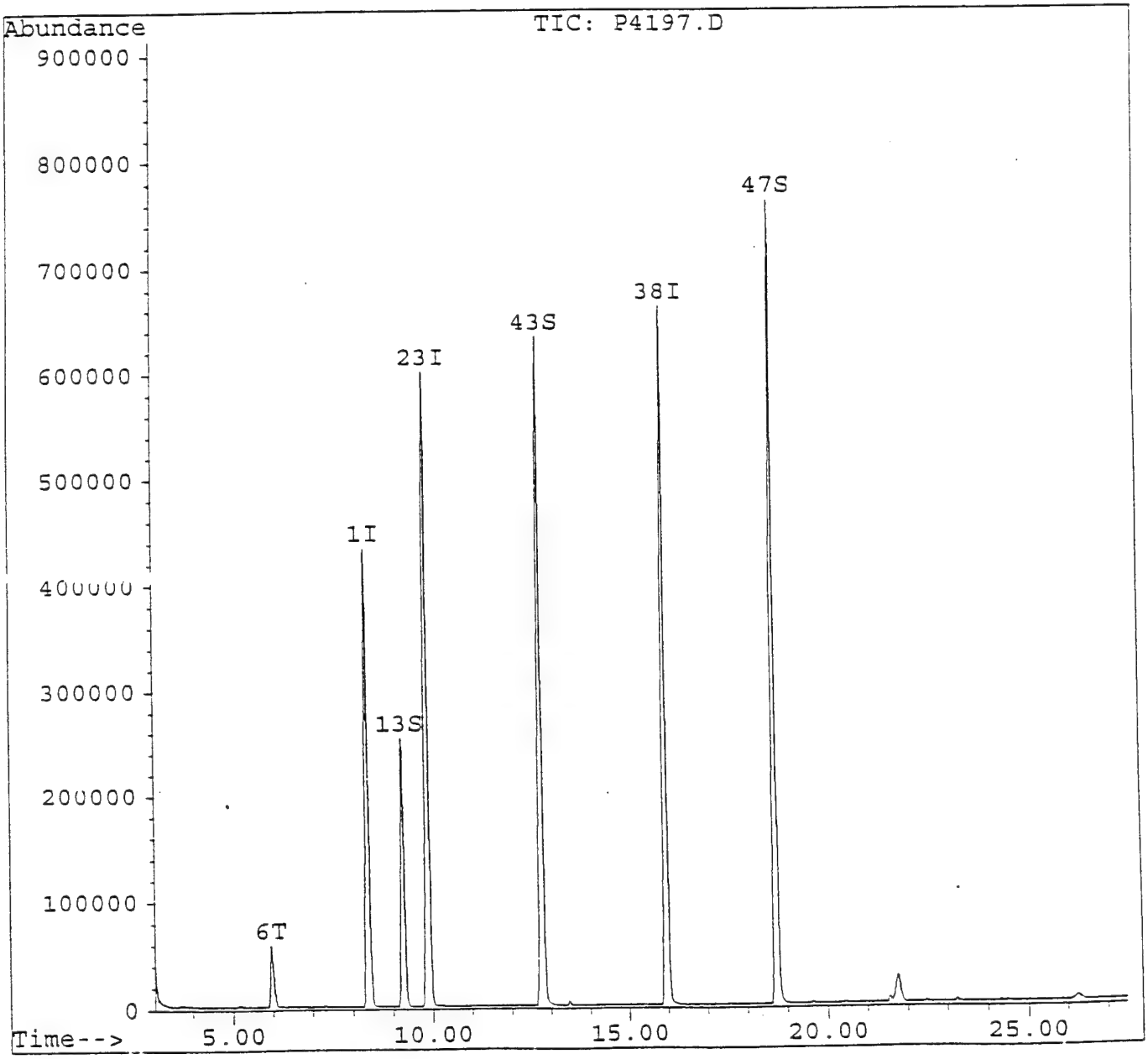
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	8	JB
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U
108-05-4	Vinyl Acetate	11	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4197.D
Acq On : 6 Apr 95 12:25 pm
Sample : 2349010,1-20-1,
Misc : 1,,10,,5,5,LOW,SOIL,R4-3-95,
Quant Time: Apr 6 12:53 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 09:11:16 1995
Response via : Single Level Calibration



000027

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4197.D
Acq On : 6 Apr 95 12:25 pm
Sample : 2349010,1-20-1,
Misc : 1,,10,,5,5,LOW,SOIL,R4-3-95,
Quant Time: Apr 6 12:53 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 09:11:16 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0406\P4191.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.38	128	339739	50.00 ug/l	0.00
23) CI10 1,4-Difluorobenzene	9.88	114	1592314	50.00 ug/l	0.00
38) CI20 Chlorobenzene-d5	15.96	117	1217264	50.00 ug/l	0.00
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	9.24	65	480232	49.36 ug/l	98.71%
43) CS05 Toluene-d8	12.77	98	1427795	49.79 ug/l	99.58%
47) CS10 4-Bromofluorobenzene	18.72	95	969843	48.80 ug/l	97.61%
Target Compounds					Qvalue
6) C030 Methylene Chloride	5.96	84	74022	7.04 ug/l	91

000028

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-21-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2349011

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4198.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 3 Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

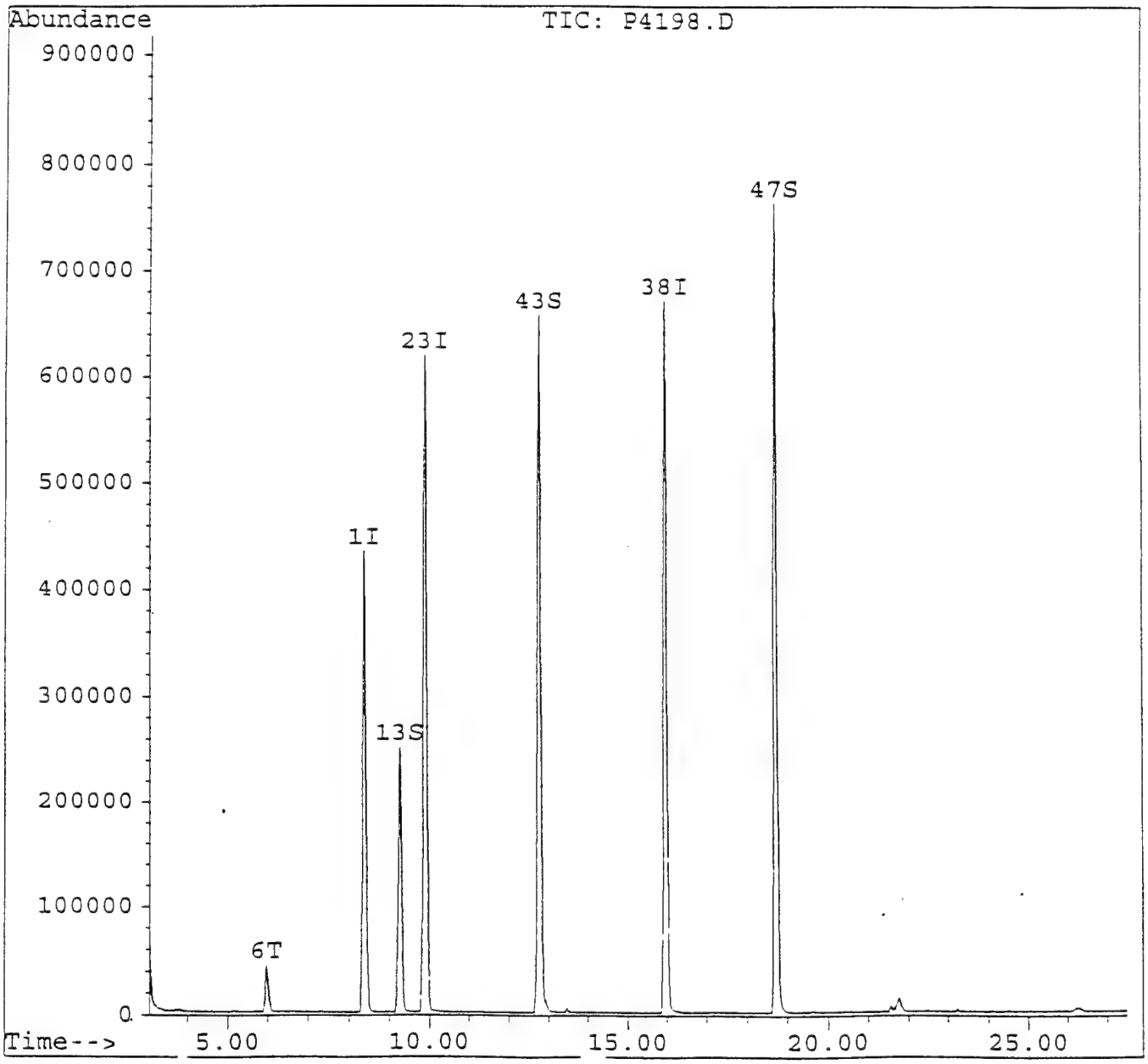
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4198.D
Acq On : 6 Apr 95 12:58 pm
Sample : 2349011,1-21-1,
Misc : 1,,3,,5,5,LOW,SOIL,R4-3-95,
Quant Time: Apr 6 13:26 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 09:11:16 1995
Response via : Single Level Calibration



000030

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4198.D
Acq On : 6 Apr 95 12:58 pm
Sample : 2349011,1-21-1,
Misc : 1,,3,,5,5,LOW,SOIL,R4-3-95,
Quant Time: Apr 6 13:26 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 09:11:16 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0406\P4191.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.38	128	341626	50.00 ug/l	0.00
23) CI10 1,4-Difluorobenzene	9.88	114	1626772	50.00 ug/l	0.00
38) CI20 Chlorobenzene-d5	15.96	117	1236144	50.00 ug/l	0.00
System Monitoring Compounds					**%Recovery**
13) CS15 1,2-Dichloroethane-d4	9.25	65	478833	48.94 ug/l	97.88%
43) CS05 Toluene-d8	12.77	98	1476088	50.69 ug/l	101.37%
47) CS10 4-Bromofluorobenzene	18.72	95	977380	48.43 ug/l	96.86%
Target Compounds					**Qvalue**
6) C030 Methylene Chloride	5.96	84	53654	5.08 ug/l	91

000031

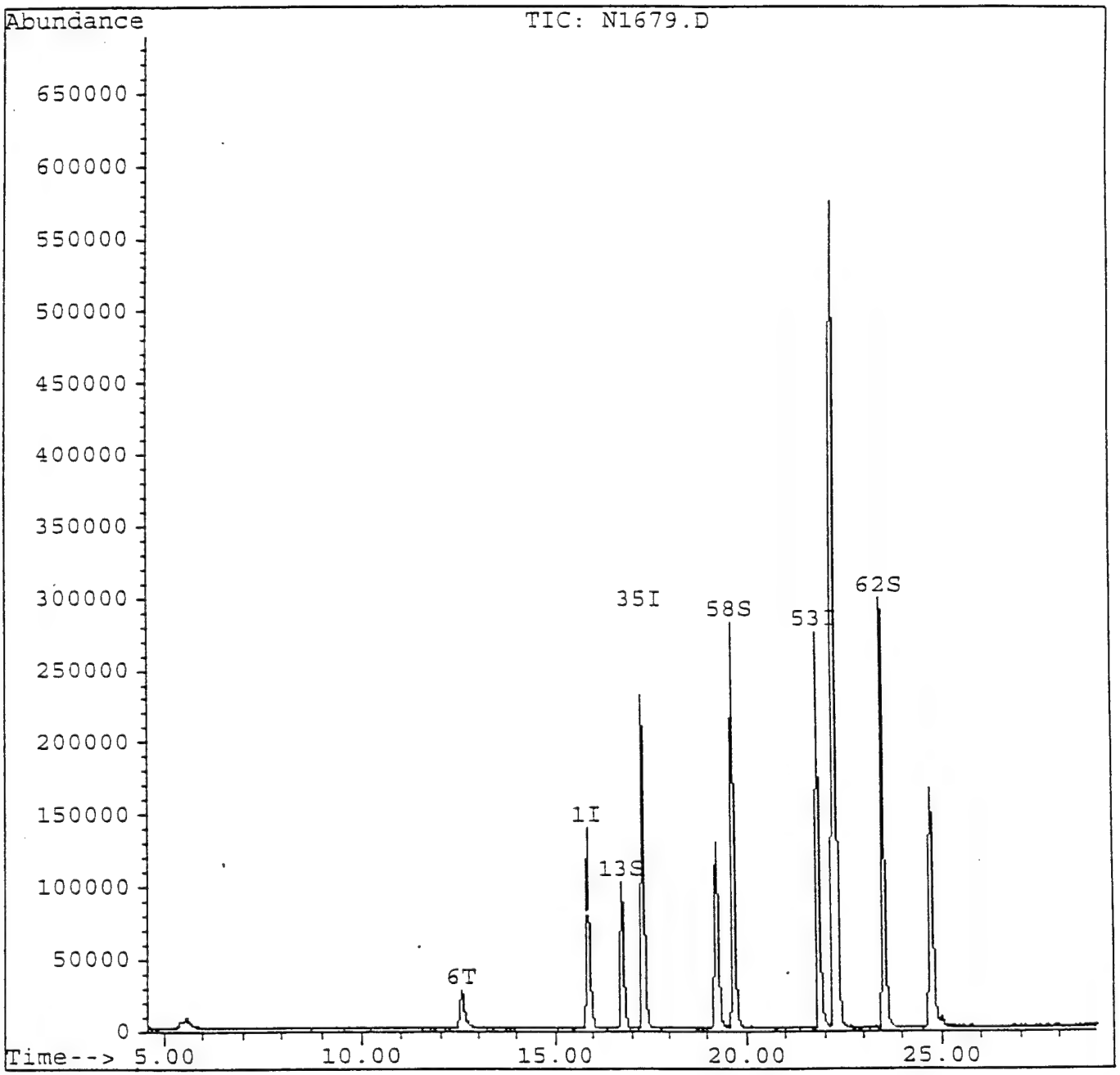
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR0695\N1679.D
Acq Time : 6 Apr 95 11:06 am
Sample : 2349012,FLDBK1,
Misc : 1,0,,,5,5,L,WATER,R04-05-95
Quant Time: Apr 6 11:35 1995

Operator: STM
Inst : HPN
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\H200316.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 10:08:49 1995
Response via : Single Level Calibration



000033

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQPBK1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) WATER Lab Sample ID: 2349013

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N1680.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. _____ Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	8	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR0695\N1680.D
Acq Time : 6 Apr 95 11:40 am
Sample : 2349013,EQPBK1,
Misc : 1,0,,,5,5,L,WATER,R04-05-95
Quant Time: Apr 6 15:54 1995

Operator: STM
Inst : HPN
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\H200316.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 10:08:49 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\APR0695\N1677.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	15.88	128	110287	50.00 ug/l	0.00
35) CI10 1,4-Difluorobenzene	17.32	114	625180	50.00 ug/l	0.00
53) CI20 Chlorobenzene-d5	21.86	117	477975	50.00 ug/l	-0.01
System Monitoring Compounds					**%Recovery**
13) CS15 1,2-Dichloroethane-d4	16.76	65	211469	47.15 ug/l	94.31%
58) CS05 Toluene-d8	19.68	98	639780	54.17 ug/l	108.33%
62) CS10 4-Bromofluorobenzene	23.52	95	445819	56.35 ug/l	112.70%
Target Compounds					**Qvalue**
6) C030 Methylene Chloride	12.59	84	50307	7.65 ug/l	97

000037

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) WATER Lab Sample ID: 2349014

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N1681.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. _____ Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

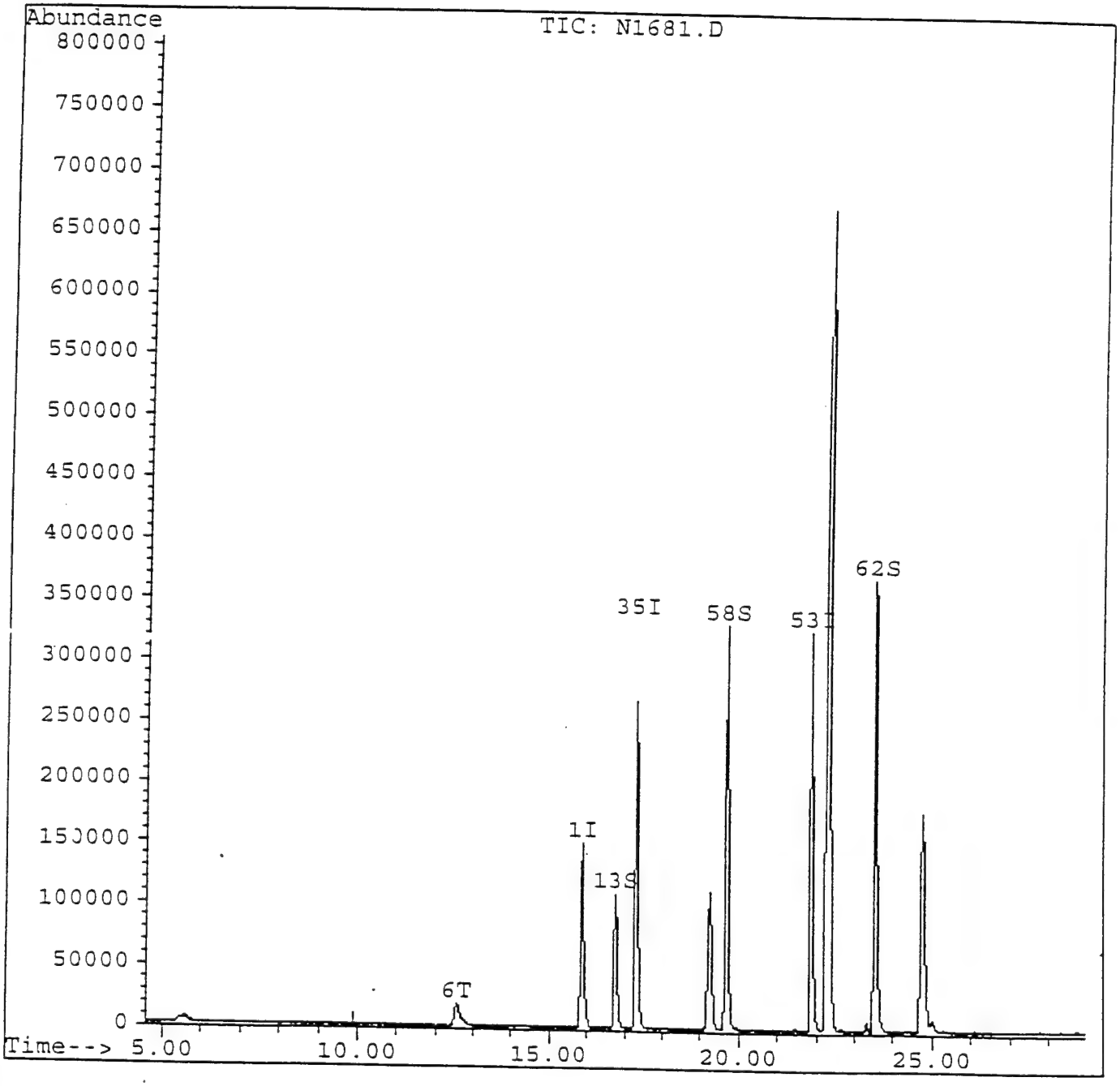
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	8	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR0695\N1681.D
Acq Time : 6 Apr 95 12:15 pm
Sample : 2349014,TRIP-1,
Misc : 1,0,,,5,5,L,WATER,R04-05-95
Quant Time: Apr 6 12:45 1995

Operator: STM
Inst : HPN
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\H200316.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 10:08:49 1995
Response via : Single Level Calibration



000039

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR0695\N1681.D
Acq Time : 6 Apr 95 12:15 pm
Sample : 2349014,TRIP-1,
Misc : 1,0,,,5,5,L,WATER,R04-05-95
Quant Time: Apr 6 12:45 1995

Operator: STM
Inst : HPN
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\H200316.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 10:08:49 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\APR0695\N1677.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	15.86	128	110923	50.00 ug/l	-0.03
35) CI10 1,4-Difluorobenzene	17.30	114	636112	50.00 ug/l	-0.03
53) CI20 Chlorobenzene-d5	21.85	117	493883	50.00 ug/l	-0.02
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	16.74	65	213141	47.25 ug/l	94.51%
58) CS05 Toluene-d8	19.68	98	662416	54.28 ug/l	108.55%
62) CS10 4-Bromofluorobenzene	23.51	95	462696	56.60 ug/l	113.20%
Target Compounds					Qvalue
6) C030 Methylene Chloride	12.55	84	55397	8.38 ug/l	94

000040

(#) = qualifier out of range (m) = manual integration

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP-2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) WATER Lab Sample ID: 2349015

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N1697.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. _____ Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

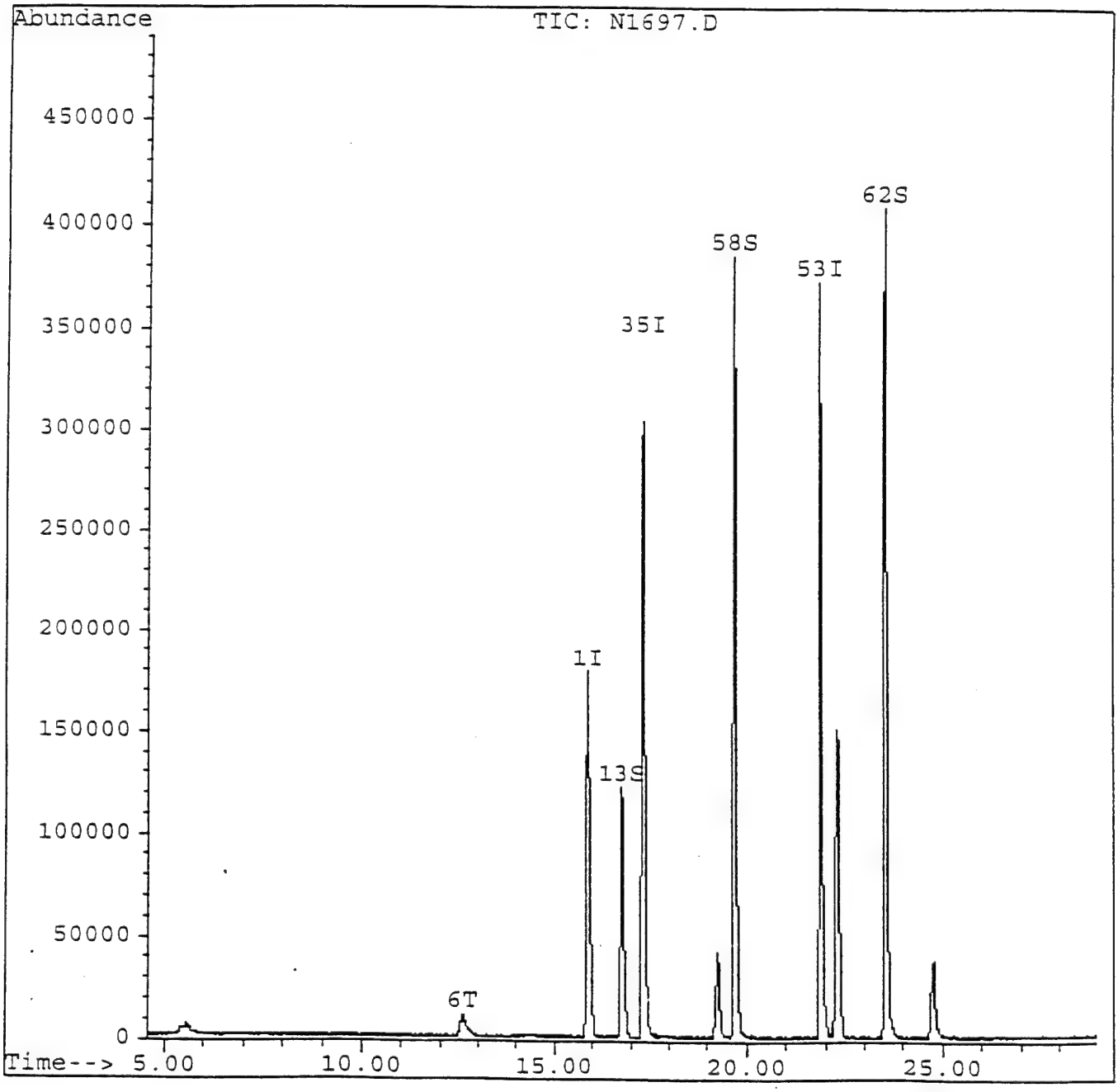
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR0695\N1697.D
Acq Time : 6 Apr 95 21:46 pm
Sample : 2349015,TRIP-2,
Misc : 1,0,,,5,5,L,WATER,R04-05-95
Quant Time: Apr 6 22:16 1995

Operator: L.SINGH
Inst : HPN
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\H200316.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 21:39:23 1995
Response via : Single Level Calibration



000042

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR0695\N1697.D
Acq Time : 6 Apr 95 21:46 pm
Sample : 2349015,TRIP-2,
Misc : 1,0,,,5,5,L,WATER,R04-05-95
Quant Time: Apr 6 22:16 1995

Operator: L.SINGH
Inst : HPN
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\H200316.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 21:39:23 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\APR0695\N1694.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	15.87	128	131417	50.00 ug/l	-0.02
35) CI10 1,4-Difluorobenzene	17.32	114	716545	50.00 ug/l	-0.01
53) CI20 Chlorobenzene-d5	21.88	117	552719	50.00 ug/l	0.00
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	16.76	65	240432	46.99 ug/l	93.98%
58) CS05 Toluene-d8	19.69	98	756585	45.83 ug/l	91.66%
62) CS10 4-Bromofluorobenzene	23.53	95	512463	45.23 ug/l	90.47%
Target Compounds					Qvalue
6) C030 Methylene Chloride	12.58	84	32254	5.48 ug/l	91

000043

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-23-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2350501

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4204.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 4 Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

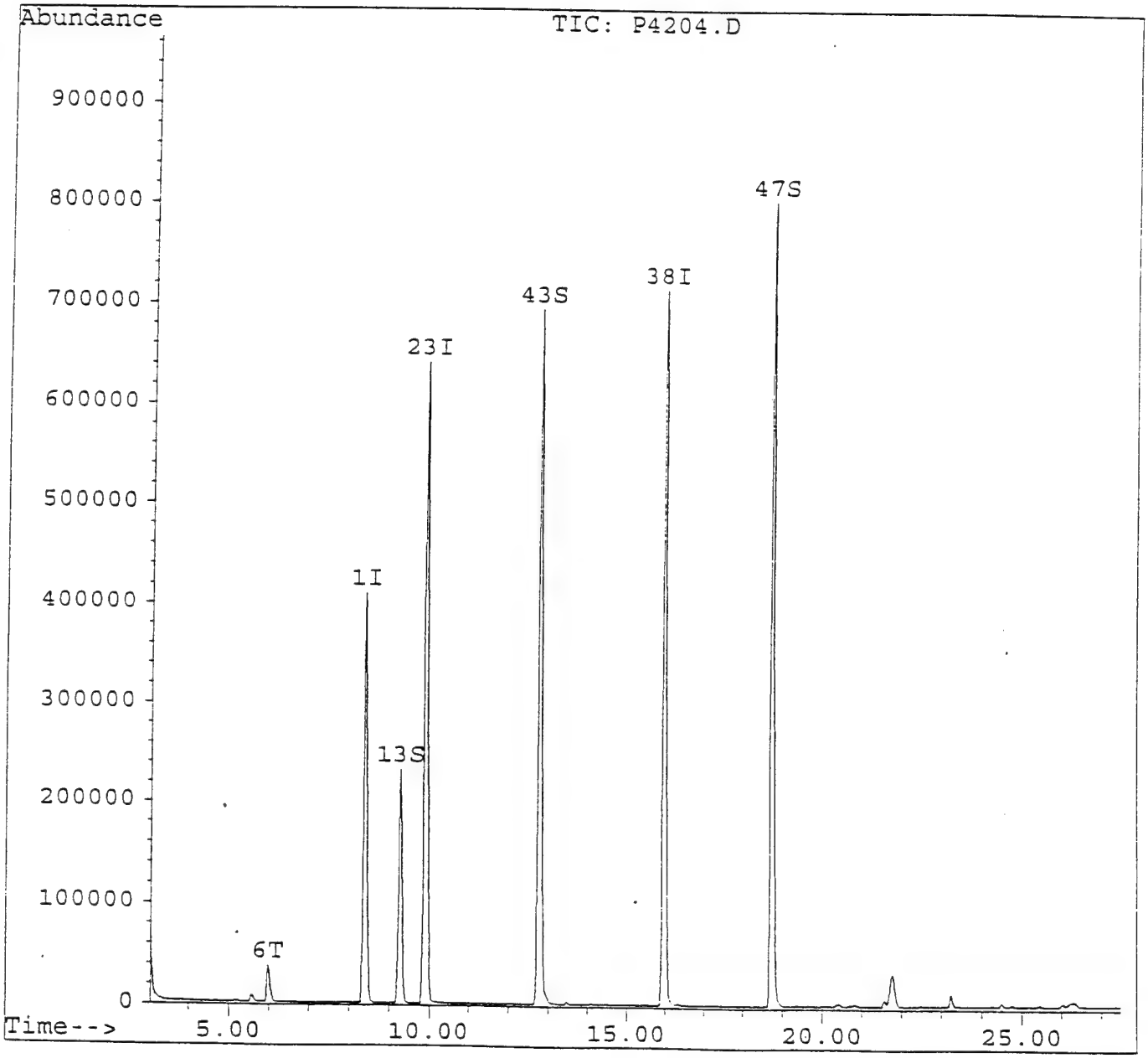
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4204.D
Acq On : 6 Apr 95 17:08 pm
Sample : 2350501,1-23-1,
Misc : 1,,4,,5,5,LOW,SOIL,R4-6-95,
Quant Time: Apr 10 8:07 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 08 12:24:42 1995
Response via : Single Level Calibration



000045

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4204.D
Acq On : 6 Apr 95 17:08 pm
Sample : 2350501,1-23-1,
Misc : 1,,4,,5,5,LOW,SOIL,R4-6-95,
Quant Time: Apr 10 8:07 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 09:11:16 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0406\P4191.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.39	128	318559	50.00 ug/l	0.02
23) CI10 1,4-Difluorobenzene	9.89	114	1689350	50.00 ug/l	0.02
38) CI20 Chlorobenzene-d5	15.97	117	1315969	50.00 ug/l	0.02
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	9.26	65	439091	48.13 ug/l	96.26%
43) CS05 Toluene-d8	12.78	98	1559533	50.30 ug/l	100.61%
47) CS10 4-Bromofluorobenzene	18.73	95	1021849	47.56 ug/l	95.13%
Target Compounds					Qvalue
6) C030 Methylene Chloride	5.97	84	47799	4.85 ug/l #	88

000046

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-22-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2350502

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4205.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 5 Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

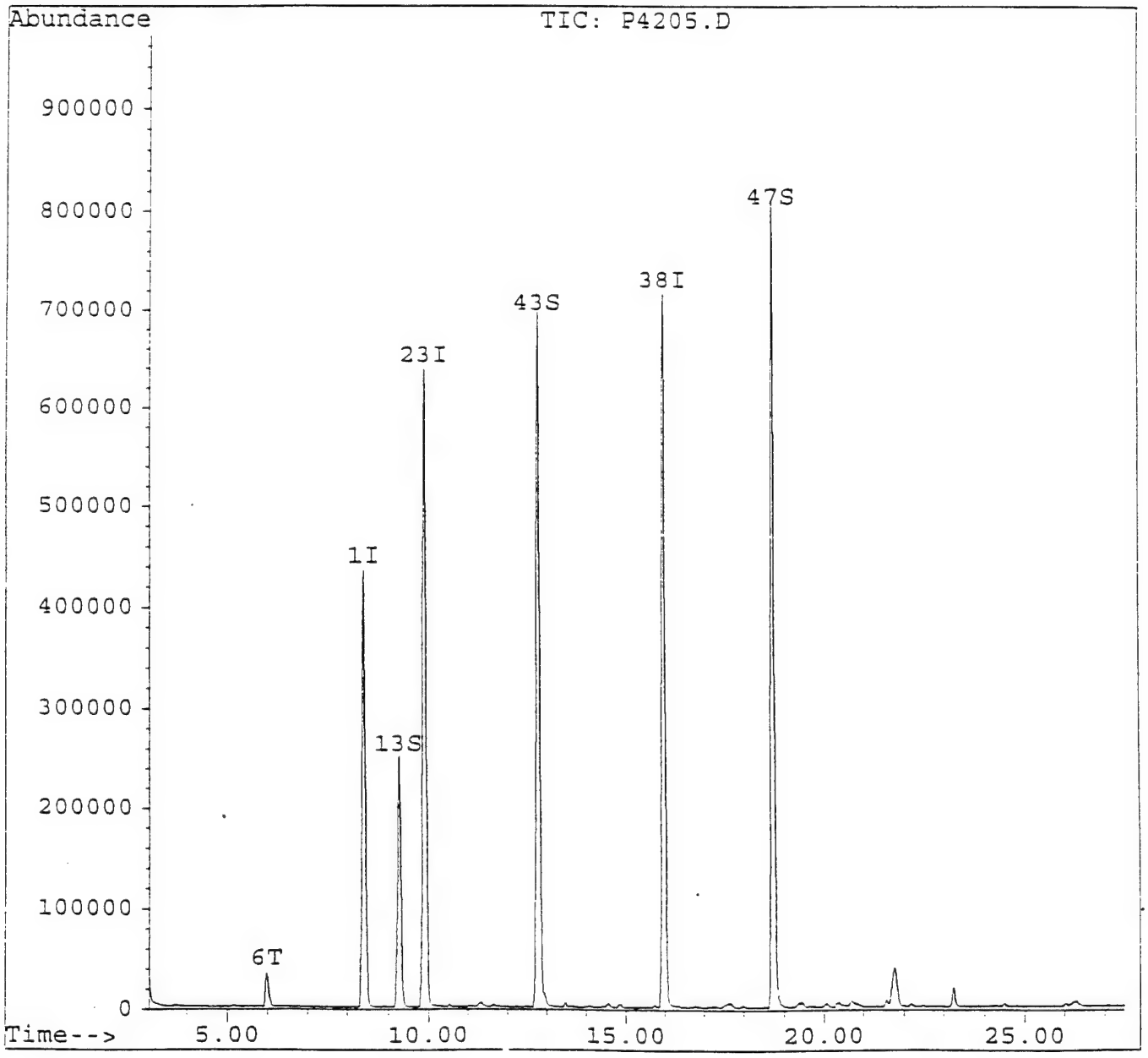
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4205.D
Acq On : 6 Apr 95 17:41 pm
Sample : 2350502,1-22-1,
Misc : 1,,5,,5,5,LOW,SOIL,R4-6-95,
Quant Time: Apr 6 18:09 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 08 12:24:42 1995
Response via : Single Level Calibration



000048

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4205.D
Acq On : 6 Apr 95 17:41 pm
Sample : 2350502,1-22-1,
Misc : 1,,5,,5,5,LOW,SOIL,R4-6-95,
Quant Time: Apr 6 18:09 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 09:11:16 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0406\P4191.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.39	128	341065	50.00 ug/l	0.02
23) CI10 1,4-Difluorobenzene	9.89	114	1690206	50.00 ug/l	0.02
38) CI20 Chlorobenzene-d5	15.97	117	1317405	50.00 ug/l	0.02
System Monitoring Compounds					**%Recovery**
13) CS15 1,2-Dichloroethane-d4	9.25	65	471676	48.29 ug/l	96.58%
43) CS05 Toluene-d8	12.77	98	1573148	50.69 ug/l	101.38%
47) CS10 4-Bromofluorobenzene	18.73	95	1033057	48.03 ug/l	96.07%
Target Compounds					**Qvalue**
6) C030 Methylene Chloride	5.97	84	42902	4.06 ug/l	97

000049

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-22-1D

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2350503

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4203.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 6 Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

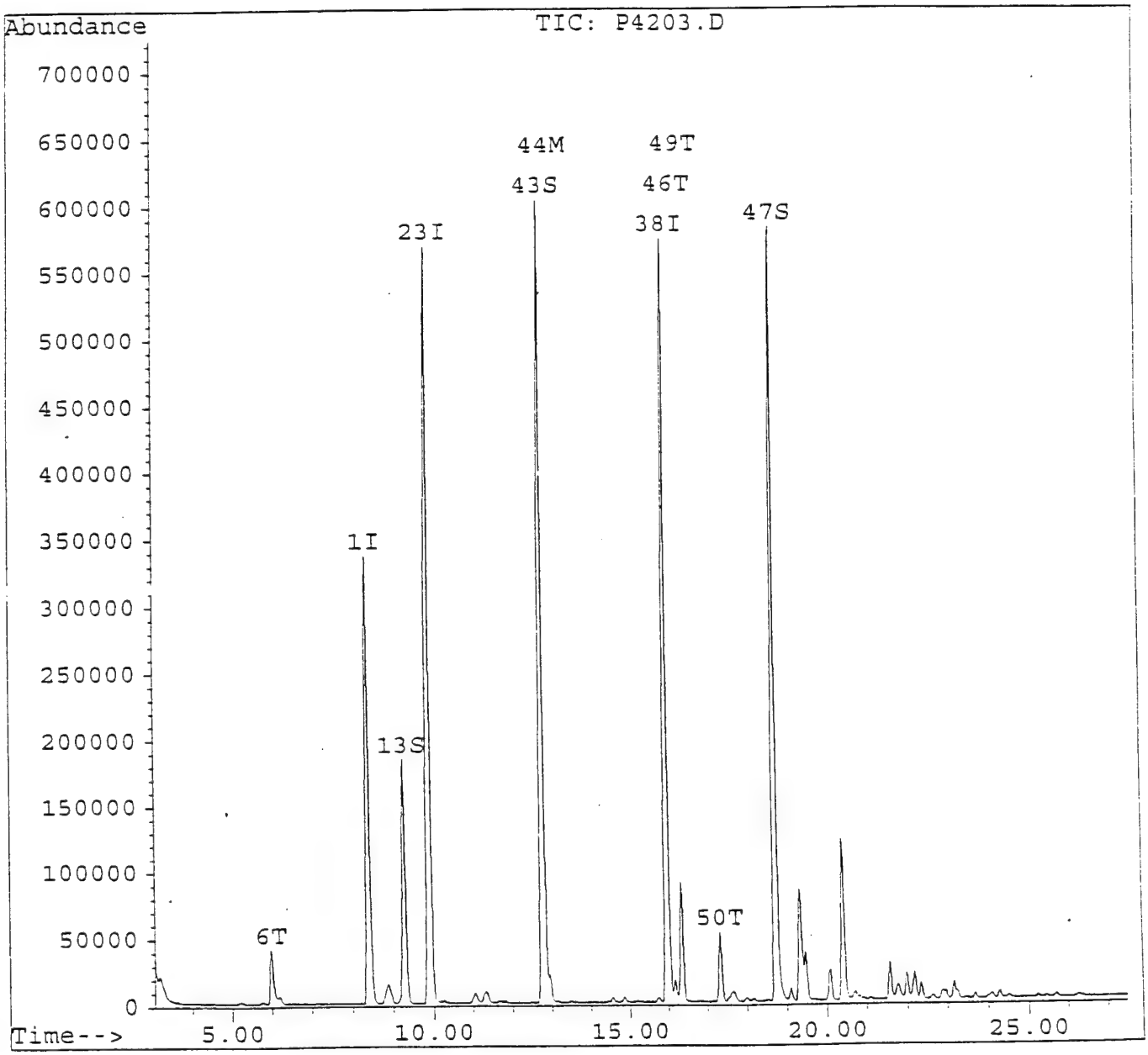
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	7	JB
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	1	J
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	14	
108-05-4	Vinyl Acetate	11	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4203.D
Acq On : 6 Apr 95 16:36 pm
Sample : 2350503,1-22-1D,
Misc : 1,,6,,5,5,LOW,SOIL,R4-6-95,
Quant Time: Apr 6 17:04 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 08 12:24:42 1995
Response via : Single Level Calibration



000051

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4203.D
Acq On : 6 Apr 95 16:36 pm
Sample : 2350503,1-22-1D,
Misc : 1,,6,,5,5,LOW,SOIL,R4-6-95,
Quant Time: Apr 6 17:04 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 09:11:16 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0406\P4191.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.39	128	260102	50.00 ug/l	0.02
23) CI10 1,4-Difluorobenzene	9.89	114	1502224	50.00 ug/l	0.02
38) CI20 Chlorobenzene-d5	15.97	117	1053421	50.00 ug/l	0.02
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	9.26	65	347496	46.65 ug/l	93.30%
43) CS05 Toluene-d8	12.78	98	1345510	54.22 ug/l	108.44%
47) CS10 4-Bromofluorobenzene	18.73	95	741416	43.11 ug/l	86.22%
Target Compounds					Qvalue
6) C030 Methylene Chloride	5.98	84	52129	6.48 ug/l	92
44) C230 Toluene	12.95	91	48218	1.99 ug/l	95
46) C240 Ethylbenzene	16.17	106	10986	1.22 ug/l #	84
49) C250 M-P, Xylene	16.34	106	87361	8.20 ug/l	98
50) C255 O-Xylene	17.33	106	49039	4.60 ug/l	86

000052

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-19-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2350504

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4206.D

Level: (lcw/med) LOW Date Received: 04/06/95

% Moisture: not dec. 5 Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

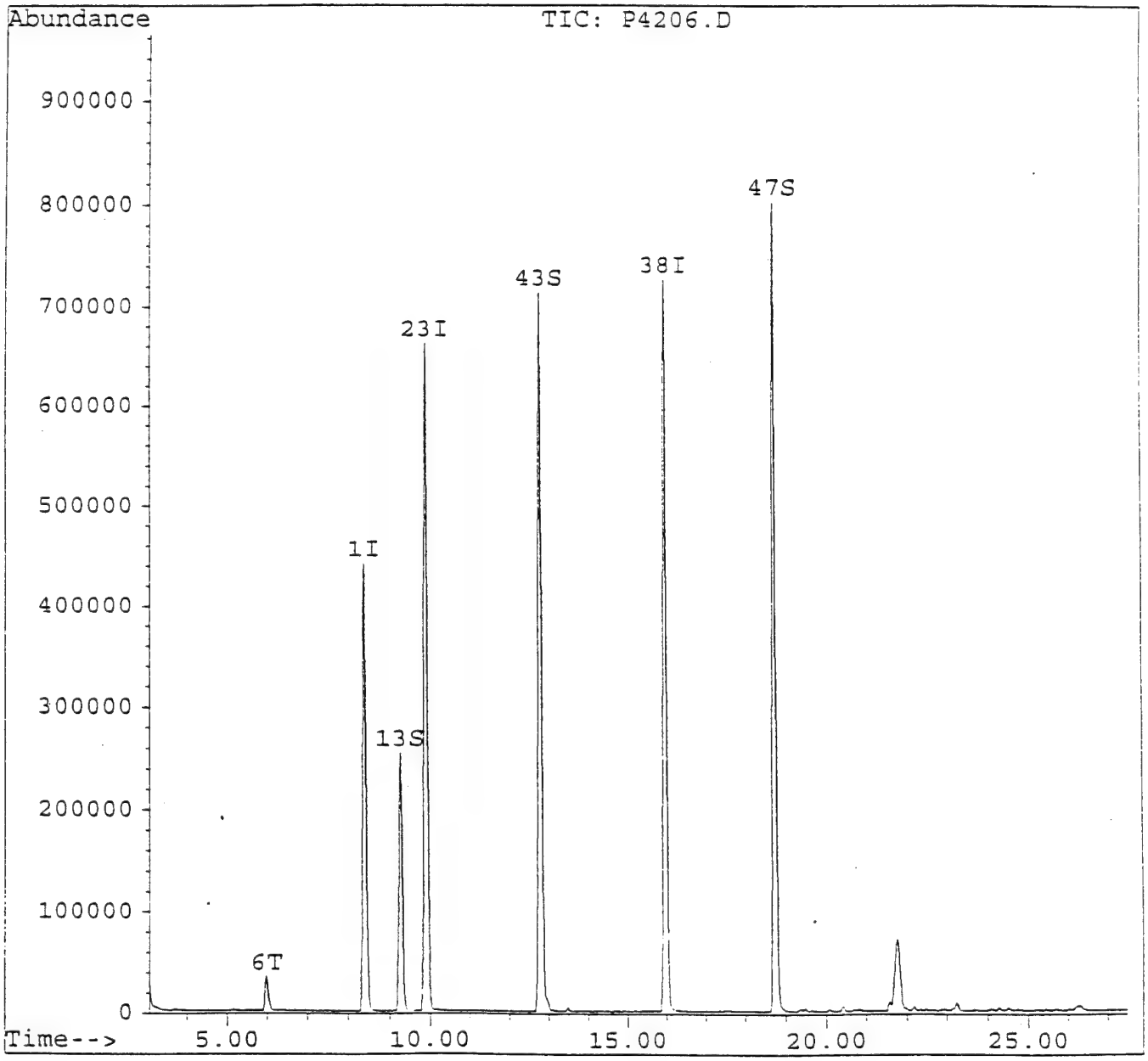
FORM I VOA SW846 METHOD 8240A

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4206.D
Acq On : 6 Apr 95 18:13 pm
Sample : 2350504,1-19-1,
Misc : 1,,5,,5,5,LOW,SOIL,R4-6-95,
Quant Time: Apr 6 18:41 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 08 12:24:42 1995
Response via : Single Level Calibration



000054

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4206.D
Acq On : 6 Apr 95 18:13 pm
Sample : 2350504,1-19-1,
Misc : 1,,5,,5,5,LOW,SOIL,R4-6-95,
Quant Time: Apr 6 18:41 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 09:11:16 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0406\P4191.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.39	128	348286	50.00 ug/l	0.02
23) CI10 1,4-Difluorobenzene	9.89	114	1749931	50.00 ug/l	0.02
38) CI20 Chlorobenzene-d5	15.97	117	1323901	50.00 ug/l	0.02
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	9.26	65	480964	48.22 ug/l	96.44%
43) CS05 Toluene-d8	12.78	98	1601087	51.34 ug/l	102.67%
47) CS10 4-Bromofluorobenzene	18.73	95	1013662	46.90 ug/l	93.80%
Target Compounds					Qvalue
6) C030 Methylene Chloride	5.98	84	45028	4.18 ug/l	98

000055

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-19-2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2350505

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4207.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 6 Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

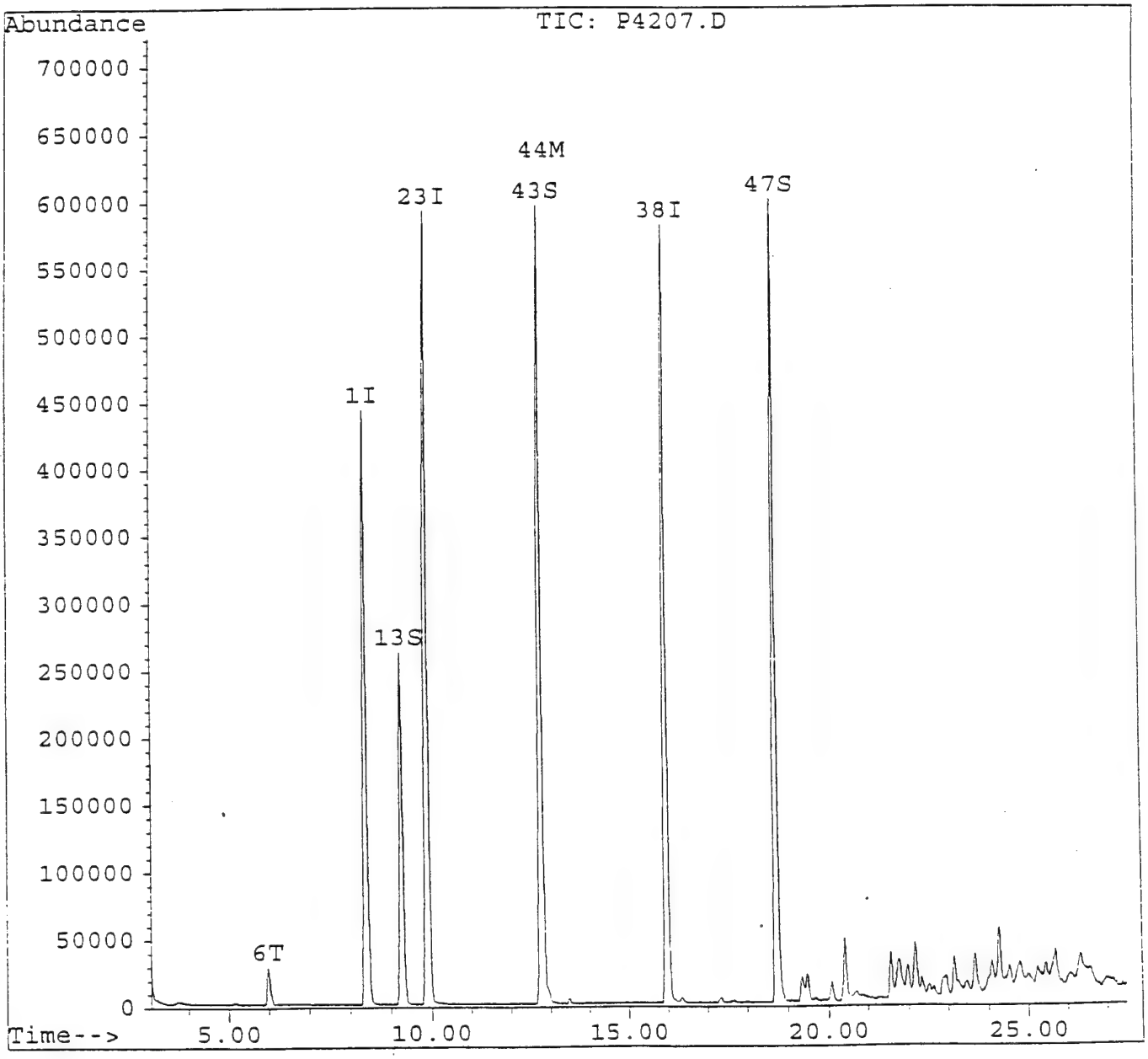
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	3	JB
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U
108-05-4	Vinyl Acetate	11	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4207.D
Acq On : 6 Apr 95 18:46 pm
Sample : 2350505,1-19-2,
Misc : 1,,6,,5,5,LOW,SOIL,R4-6-95,
Quant Time: Apr 10 8:08 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 08 12:24:42 1995
Response via : Single Level Calibration



000057

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4207.D
Acq On : 6 Apr 95 18:46 pm
Sample : 2350505,1-19-2,
Misc : 1,,6,,5,5,LOW,SOIL,R4-6-95,
Quant Time: Apr 10 8:08 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 09:11:16 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0406\P4191.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.39	128	350179	50.00 ug/l	0.02
23) CI10 1,4-Difluorobenzene	9.89	114	1560462	50.00 ug/l	0.02
38) CI20 Chlorobenzene-d5	15.97	117	1068801	50.00 ug/l	0.02
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	9.26	65	490540	48.91 ug/l	97.82%
43) CS05 Toluene-d8	12.78	98	1343683	53.36 ug/l	106.73%
47) CS10 4-Bromofluorobenzene	18.73	95	765931	43.90 ug/l	87.79%
Target Compounds					Qvalue
6) C030 Methylene Chloride	5.97	84	34932	3.22 ug/l	96
44) C230 Toluene	12.95	91	26730	1.09 ug/l	87

000058

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-24-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: 2350506

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4208.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 4 Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

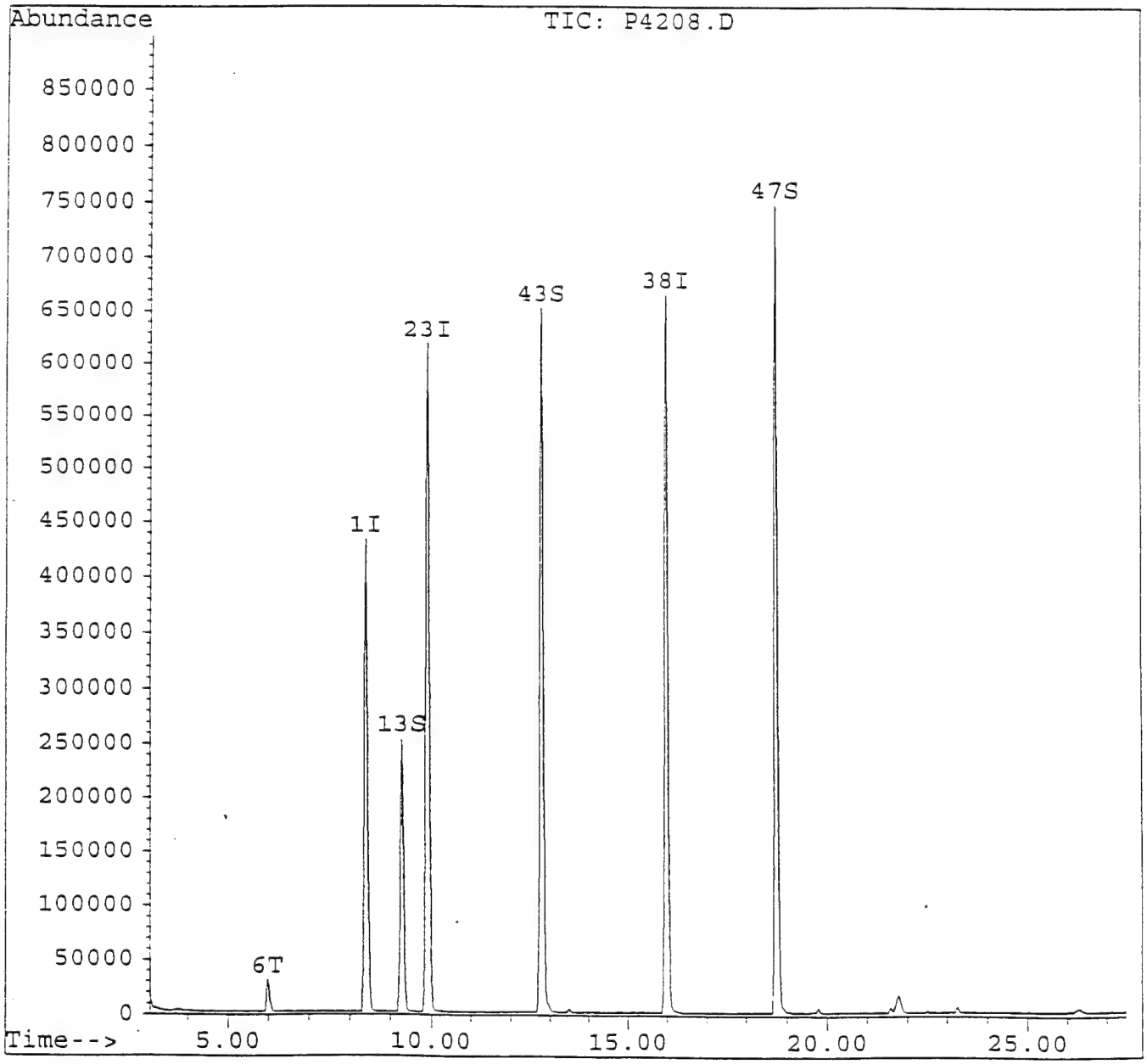
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4208.D
Acq On : 6 Apr 95 19:18 pm
Sample : 2350506,1-24-1,
Misc : 1,,4,,5,5,LOW,SOIL,R4-6-95,
Quant Time: Apr 6 19:46 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 08 12:24:42 1995
Response via : Single Level Calibration



000060

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0406\P4208.D
Acq On : 6 Apr 95 19:18 pm
Sample : 2350506,1-24-1,
Misc : 1,,4,,5,5,LOW,SOIL,R4-6-95,
Quant Time: Apr 6 19:46 1995

Vial: 100
Operator: SC
Inst : HPP
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SOIL0317.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 09:11:16 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0406\P4191.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	8.40	128	339522	50.00 ug/l	0.03
23) CI10 1,4-Difluorobenzene	9.90	114	1624935	50.00 ug/l	0.03
38) CI20 Chlorobenzene-d5	15.99	117	1229840	50.00 ug/l	0.04
System Monitoring Compounds					**%Recovery**
13) CS15 1,2-Dichloroethane-d4	9.27	65	477273	49.08 ug/l	98.17%
43) CS05 Toluene-d8	12.79	98	1466677	50.62 ug/l	101.24%
47) CS10 4-Bromofluorobenzene	18.74	95	954479	47.54 ug/l	95.08%
Target Compounds					**Qvalue**
6) C030 Methylene Chloride	5.97	84	37037	3.53 ug/l	93

000061

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQPBK2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) WATER Lab Sample ID: 2350507

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N1701.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. _____ Data Analyzed: 04/07/95

Column: (pack/cap) CAP Dilution Factor: 1.0

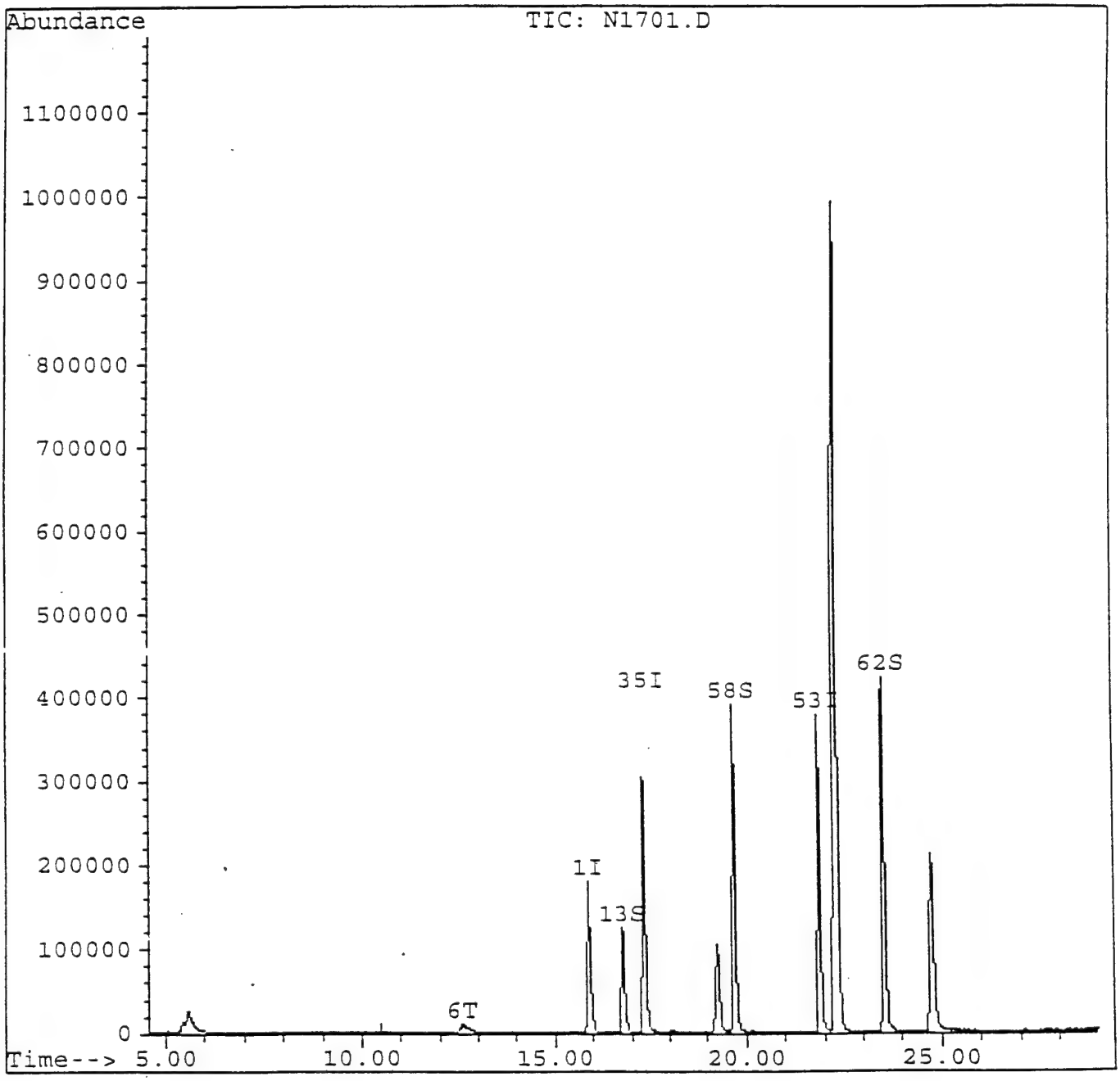
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR0695\N1701.D
Acq Time : 7 Apr 95 00:07 am
Sample : 2350507,EQPBK2,
Misc : 1,1,,,5,5,L,WATER,R4-6-95
Quant Time: Apr 7 9:24 1995

Operator: L.SINGH
Inst : HPN
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\H200316.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 21:39:23 1995
Response via : Single Level Calibration



000063

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR0695\N1701.D
Acq Time : 7 Apr 95 00:07 am
Sample : 2350507,EQPBK2,
Misc : 1,1,,,5,5,L,WATER,R4-6-95
Quant Time: Apr 7 9:24 1995

Operator: L.SINGH
Inst : HPN
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\H200316.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 21:39:23 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\APR0695\N1694.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	15.88	128	130842	50.00 ug/l	0.00
35) CI10 1,4-Difluorobenzene	17.31	114	722034	50.00 ug/l	-0.02
53) CI20 Chlorobenzene-d5	21.87	117	564256	50.00 ug/l	0.00
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	16.75	65	241650	47.43 ug/l	94.87%
58) CS05 Toluene-d8	19.68	98	782089	46.40 ug/l	92.81%
62) CS10 4-Bromofluorobenzene	23.52	95	525806	45.46 ug/l	90.93%
Target Compounds					Qvalue
6) C030 Methylene Chloride	12.59	84	29213	4.99 ug/l m	94

000064

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FLDBK2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) WATER Lab Sample ID: 2350508

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N1702.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. _____ Data Analyzed: 04/07/95

Column: (pack/cap) CAP Dilution Factor: 1.0

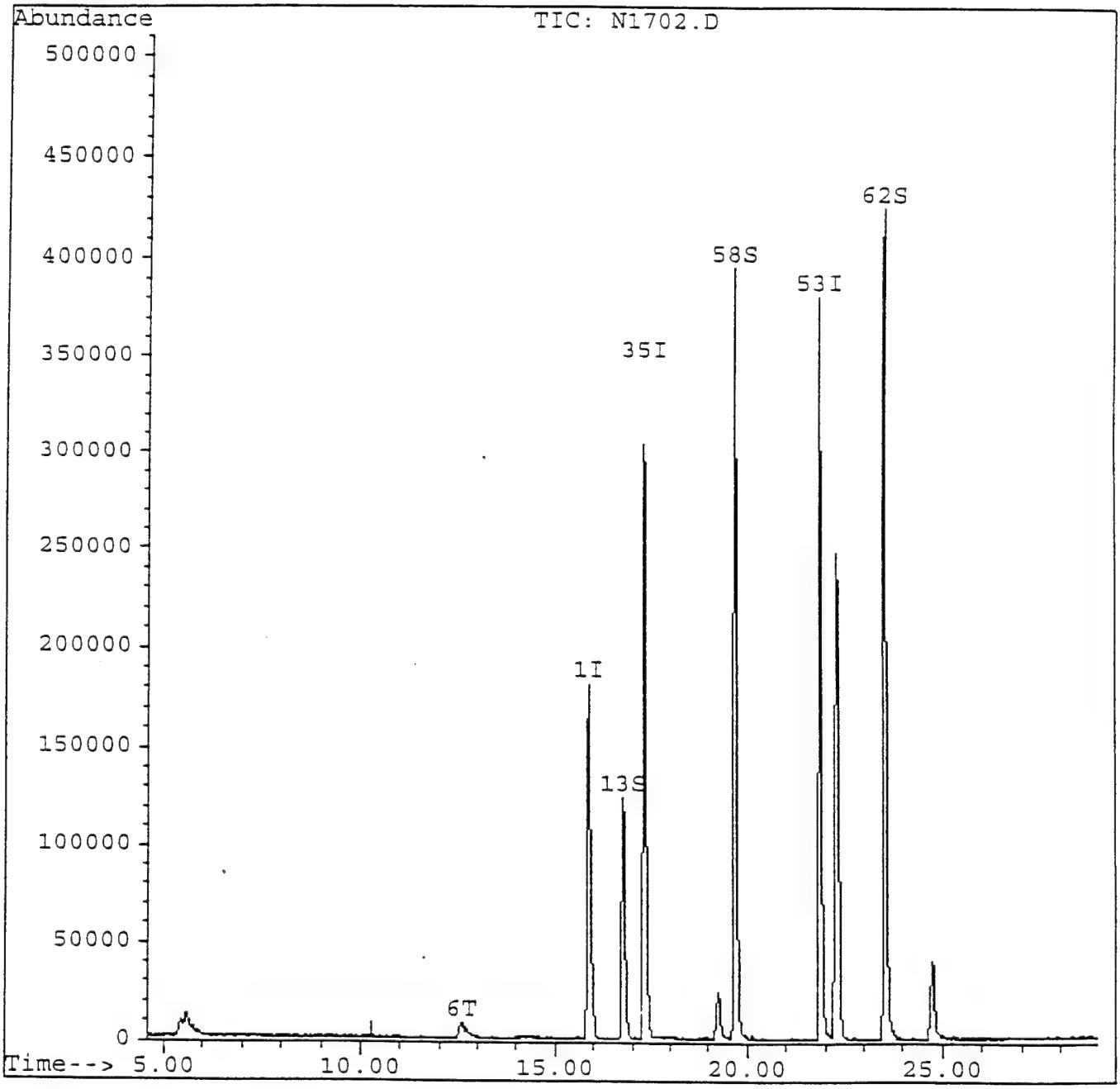
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR0695\N1702.D
Acq Time : 7 Apr 95 00:42 am
Sample : 2350508,FLDBK2,
Misc : 1,1,,,5,5,L,WATER,R4-6-95
Quant Time: Apr 7 1:12 1995

Operator: L.SINGH
Inst : HPN
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\H200316.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 21:39:23 1995
Response via : Single Level Calibration



000066

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR0695\N1702.D
Acq Time : 7 Apr 95 00:42 am
Sample : 2350508,FLDBK2,
Misc : 1,1,,,5,5,L,WATER,R4-6-95
Quant Time: Apr 7 1:12 1995

Operator: L.SINGH
Inst : HPN
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\H200316.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 21:39:23 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\APR0695\N1694.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	15.87	128	132832	50.00 ug/l	-0.02
35) CI10 1,4-Difluorobenzene	17.31	114	726202	50.00 ug/l	-0.02
53) CI20 Chlorobenzene-d5	21.86	117	563008	50.00 ug/l	-0.01
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	16.75	65	246195	47.60 ug/l	95.20%
58) CS05 Toluene-d8	19.68	98	777759	46.25 ug/l	92.50%
62) CS10 4-Bromofluorobenzene	23.52	95	528759	45.82 ug/l	91.64%
Target Compounds					Qvalue
6) C030 Methylene Chloride	12.57	84	24558	4.13 ug/l	90

000067

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP-3

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) WATER Lab Sample ID: 2350509

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N1703.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. _____ Data Analyzed: 04/07/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

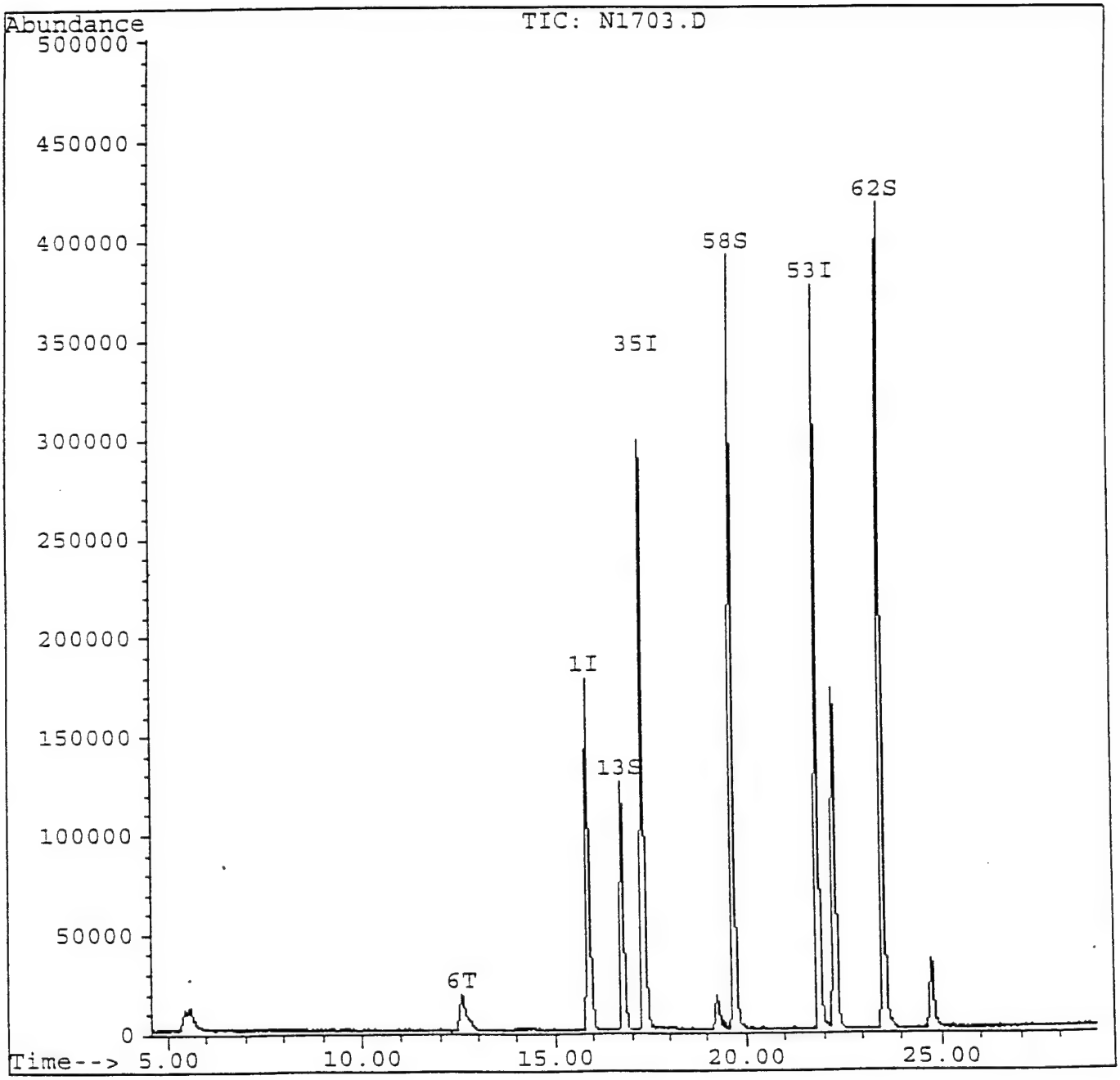
FORM I VOA SW846 METHOD 8240A

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR0695\N1703.D
Acq Time : 7 Apr 95 1:18 am
Sample : 2350509,TRIP-3,
Misc : 1,1,,,5,5,L,WATER,R4-6-95
Quant Time: Apr 7 9:25 1995

Operator: L.SINGH
Inst : HPN
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\H200316.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 21:39:23 1995
Response via : Single Level Calibration



000069

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR0695\N1703.D
Acq Time : 7 Apr 95 1:18 am
Sample : 2350509,TRIP-3,
Misc : 1,1,,,5,5,L,WATER,R4-6-95
Quant Time: Apr 7 9:25 1995

Operator: L.SINGH
Inst : HPN
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\H200316.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 21:39:23 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\APR0695\N1694.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	15.87	128	131256	50.00 ug/l	-0.03
35) CI10 1,4-Difluorobenzene	17.31	114	720120	50.00 ug/l	-0.02
53) CI20 Chlorobenzene-d5	21.87	117	559195	50.00 ug/l	0.00
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	16.75	65	242588	47.47 ug/l	94.93%
58) CS05 Toluene-d8	19.68	98	773179	46.29 ug/l	92.58%
62) CS10 4-Bromofluorobenzene	23.52	95	521559	45.50 ug/l	91.01%
Target Compounds					Qvalue
6) C030 Methylene Chloride	12.57	84	57523	9.79 ug/l m	98

SP 04-10-95

000070

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP-4

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) WATER Lab Sample ID: 2350510

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N1704.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. _____ Data Analyzed: 04/07/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	12	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

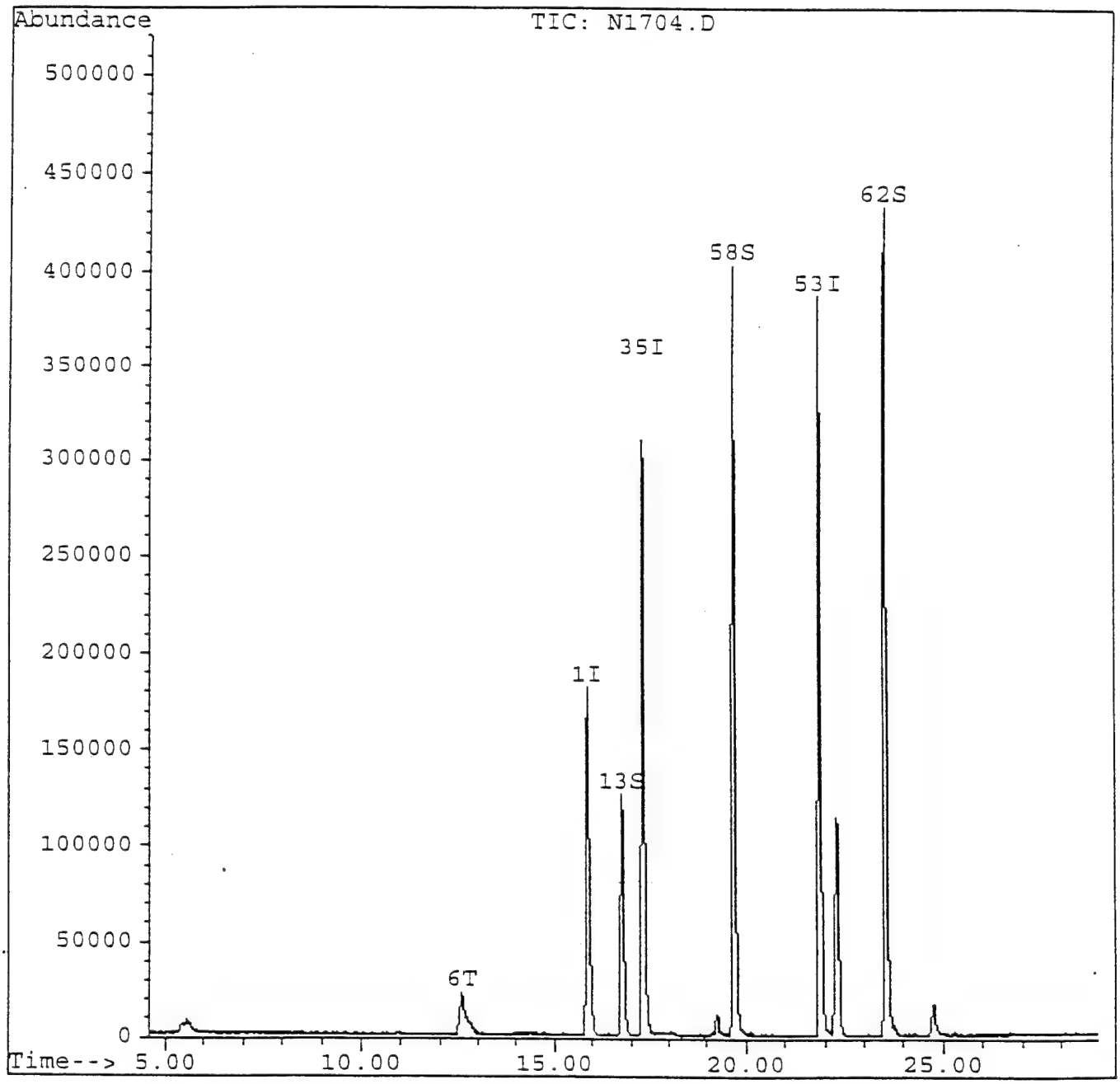
FORM I VOA SW846 METHOD 8240A

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR0695\N1704.D
Acq Time : 7 Apr 95 1:53 am
Sample : 2350510,TRIP-4,
Misc : 1,1,,,5,5,L,WATER,R4-6-95
Quant Time: Apr 7 9:26 1995

Operator: L.SINGH
Inst : HPN
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\H200316.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 21:39:23 1995
Response via : Single Level Calibration



000072

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR0695\N1704.D
Acq Time : 7 Apr 95 1:53 am
Sample : 2350510,TRIP-4,
Misc : 1,1,,,5,5,L,WATER,R4-6-95
Quant Time: Apr 7 9:26 1995

Operator: L.SINGH
Inst : HPN
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\H200316.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 21:39:23 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\APR0695\N1694.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) CI01 Bromochloromethane	15.86	128	132185	50.00 ug/l	-0.03
35) CI10 1,4-Difluorobenzene	17.31	114	739934	50.00 ug/l	-0.02
53) CI20 Chlorobenzene-d5	21.87	117	576813	50.00 ug/l	0.00
System Monitoring Compounds					%Recovery
13) CS15 1,2-Dichloroethane-d4	16.75	65	246922	47.98 ug/l	95.95%
58) CS05 Toluene-d8	19.68	98	793867	46.08 ug/l	92.15%
62) CS10 4-Bromofluorobenzene	23.52	95	540272	45.70 ug/l	91.39%
Target Compounds					Qvalue
6) C030 Methylene Chloride	12.58	84	68452	11.57 ug/l m	97

SM 04-10-95

000073

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKN02

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) WATER Lab Sample ID: VBLKN02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N1695.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. _____ Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

FORM I VOA SW846 METHOD 8240A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKN1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) WATER Lab Sample ID: VBLKN1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: N1678.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. _____ Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

FORM I VOA SW846 METHOD 8240A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKP14

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: VBLKP14

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4168.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 Data Analyzed: 04/05/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

FORM I VOA SW846 METHOD 8240A

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKN1	108	114	92		0
02	FLDBK1	109	110	94		0
03	EQPBK1	108	113	94		0
04	TRIP-1	108	113	94		0
05	VBLKN02	93	91	94		0
06	TRIP-2	92	90	94		0
07	EQPBK2	93	91	95		0
08	FLDBK2	92	92	95		0
09	TRIP-3	92	91	95		0
10	TRIP-4	92	91	96		0
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

000078

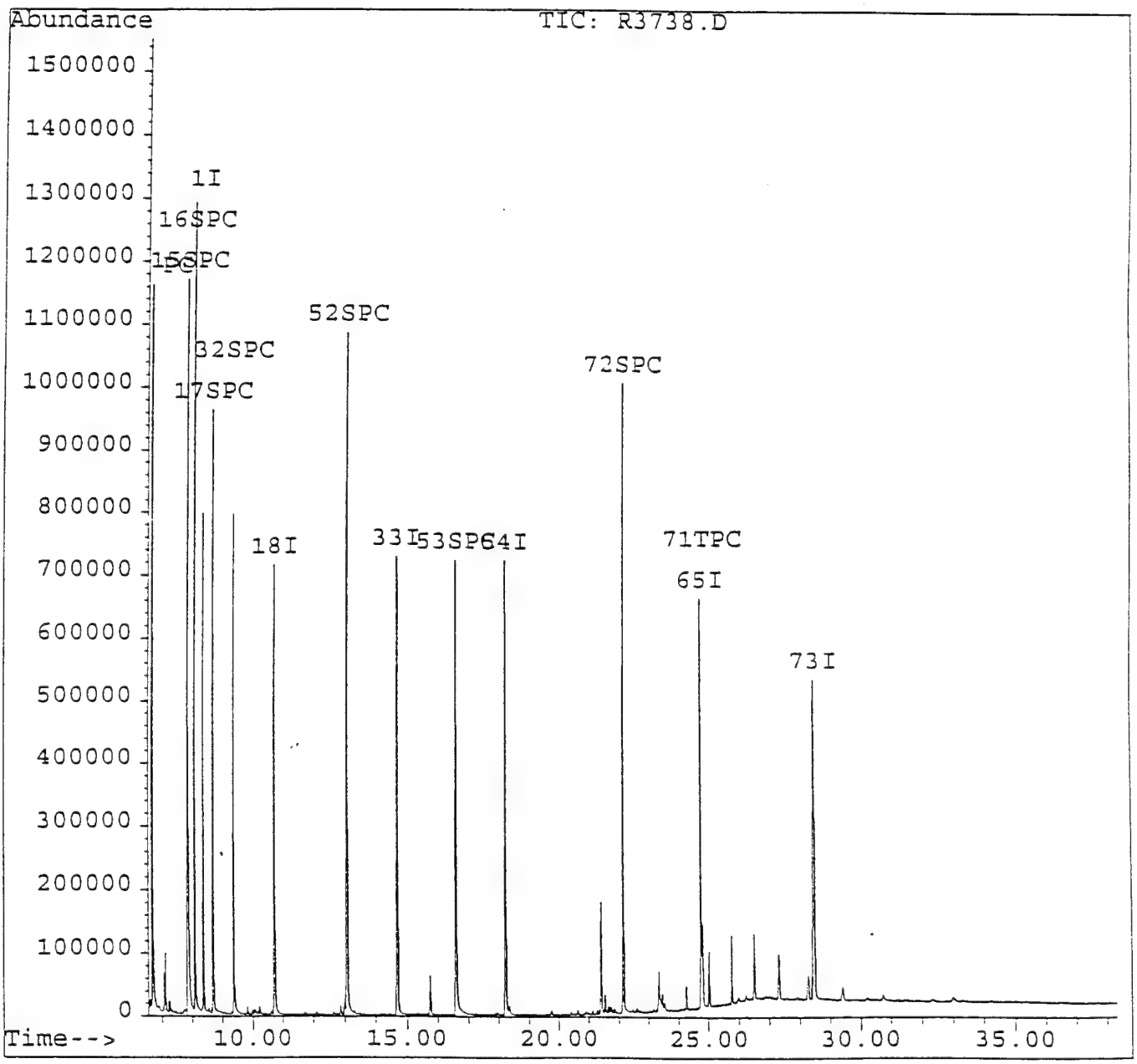
FORM II VOA-1 SW846 METHOD 8240A

Quantitation Report

Data File : c:\hpchem\1\data\0412\r3738.d
Acq On : 13 Apr 95 1:36 am
Sample : 2349001,1-16-1,
Misc : 1,,,05-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 11:53 1995

Vial: 49
Operator: Francisco
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Single Level Calibration



000004

Quantitation Report

Data File : c:\hpchem\1\data\0412\r3738.d
Acq On : 13 Apr 95 1:36 am
Sample : 2349001,1-16-1,
Misc : 1,,,05-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 11:53 1995

Vial: 49
Operator: Francis
Inst : HPR
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\r3737.d

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	8.38	152	243993	20.00 ug/L	0.00
18) Naphthalene-D8	10.73	136	866921	20.00 ug/L	0.00
33) Acenaphthene-d10	14.68	164	456653	20.00 ug/L	-0.02
54) Phenanthrene-D10	18.23	188	702749	20.00 ug/L	-0.02
65) Chrysene-D12	24.75	240	525920	20.00 ug/L	-0.02
73) Perylene-D12	28.49	264	624131	20.00 ug/L	0.00
System Monitoring Compounds					%Recovery
14) 2-Fluorophenol	6.68	112	627308	36.62 ug/L	48.83%
15) Phenol-d5	7.88	99	707235	38.92 ug/L	51.89%
16) 2-Chlorophenol-d4	8.10	132	663162	37.83 ug/L	50.44%
17) 1,2-Dichlorobenzene-d4	8.69	150	513825	27.47 ug/L	54.94%
32) Nitrobenzene-d5	9.37	82	427371	30.14 ug/L	60.27%
52) 2-Fluorobiphenyl	13.10	172	877679	31.16 ug/L	62.31%
53) 2,4,6-Tribromophenol	16.61	330	209142	38.03 ug/L	50.71%
72) Terphenyl-d14	22.16	244	811806	36.24 ug/L	72.48%
Target Compounds					Qvalue
71) Bis(2-ethylhexyl)phthalate	24.82	149	96273	2.96 ug/L	99

000005

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-16-D

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349002

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3739.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 4 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-16-D

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349002

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3739.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 4 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	690	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenz(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

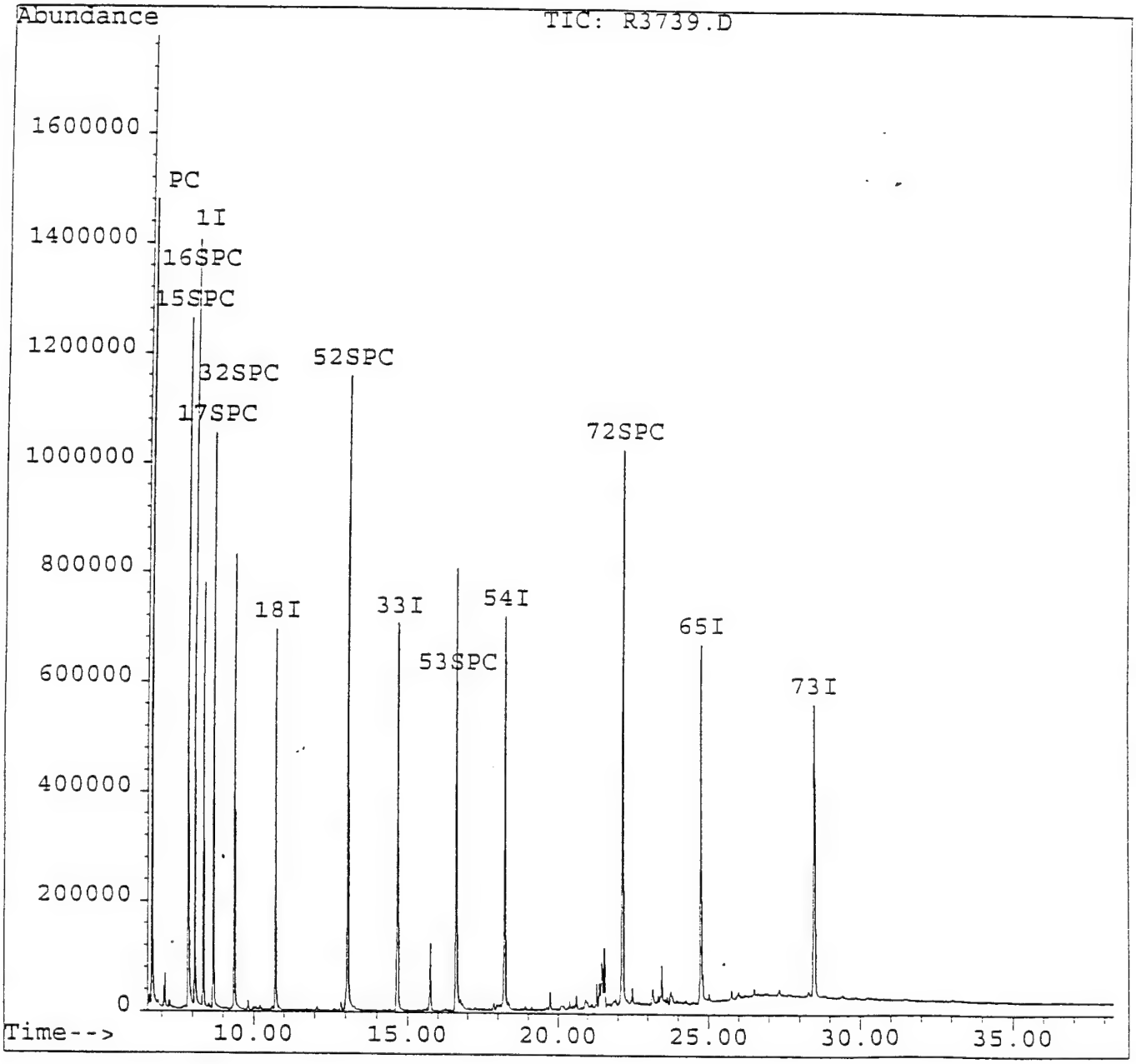
SW846 METHOD 8270A

Quantitation Report

Data File : c:\hpchem\1\data\0412\r3739.d
Acq On : 13 Apr 95 2:24 am
Sample : 2349002,1-16-D,
Misc : 1,,,05-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 11:54 1995

Vial: 50
Operator: Francisco
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Single Level Calibration



000008

Quantitation Report

Data File : c:\hpchem\1\data\0412\r3739.d
Acq On : 13 Apr 95 2:24 am
Sample : 2349002,1-16-D,
Misc : 1,,,05-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 11:54 1995

Vial: 50
Operator: Francis
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\r3737.d

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Mi
1) 1,4-Dichlorobenzene-D4	8.38	152	261158	20.00 ug/L	0.0
18) Naphthalene-D8	10.73	136	908012	20.00 ug/L	0.0
33) Acenaphthene-d10	14.70	164	490014	20.00 ug/L	0.00
54) Phenanthrene-D10	18.23	188	750653	20.00 ug/L	-0.0
65) Chrysene-D12	24.77	240	534242	20.00 ug/L	0.0
73) Perylene-D12	28.49	264	650396	20.00 ug/L	0.0

System Monitoring Compounds					%Recover
14) 2-Fluorophenol	6.68	112	751585	40.99 ug/L	54.6
15) Phenol-d5	7.88	99	859312	44.18 ug/L	58.90
16) 2-Chlorophenol-d4	8.11	132	809634	43.15 ug/L	57.5
17) 1,2-Dichlorobenzene-d4	8.70	150	619324	30.94 ug/L	61.8
32) Nitrobenzene-d5	9.38	82	520895	35.07 ug/L	70.1
52) 2-Fluorobiphenyl	13.10	172	1066544	35.28 ug/L	70.5
53) 2,4,6-Tribromophenol	16.63	330	270723	45.88 ug/L	61.1
72) Terphenyl-d14	22.18	244	927477	40.76 ug/L	81.51

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-16-2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349003

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3740.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 9 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3700	U
111-44-4	bis(2-Chloroethyl)Ether	3700	U
95-57-8	2-Chlorophenol	3700	U
541-73-1	1,3-Dichlorobenzene	3700	U
106-46-7	1,4-Dichlorobenzene	3700	U
95-50-1	1,2-Dichlorobenzene	3700	U
95-48-7	2-Methylphenol	3700	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3700	U
106-44-5	4-Methylphenol	3700	U
621-64-7	N-Nitroso-di-n-propylamine	3700	U
67-72-1	Hexachloroethane	3700	U
98-95-3	Nitrobenzene	3700	U
78-59-1	Isophorone	3700	U
88-75-5	2-Nitrophenol	3700	U
105-67-9	2,4-Dimethylphenol	3700	U
120-83-2	2,4-Dichlorophenol	3700	U
120-82-1	1,2,4-Trichlorobenzene	3700	U
91-20-3	Naphthalene	370	J
106-47-8	4-Chloroaniline	3700	U
87-68-3	Hexachlorobutadiene	3700	U
111-91-1	bis(2-Chloroethoxy)methane	3700	U
59-50-7	4-Chloro-3-Methylphenol	3700	U
91-57-6	2-Methylnaphthalene	720	J
77-47-4	Hexachlorocyclopentadiene	3700	U
88-06-2	2,4,6-Trichlorophenol	3700	U
95-95-4	2,4,5-Trichlorophenol	18000	U
91-58-7	2-Chloronaphthalene	3700	U
88-74-4	2-Nitroaniline	18000	U
131-11-3	Dimethylphthalate	3700	U
208-96-8	Acenaphthylene	3700	U
606-20-2	2,6-Dinitrotoluene	3700	U
99-09-2	3-Nitroaniline	18000	U
83-32-9	Acenaphthene	3700	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-16-2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349003

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3740.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 9 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	18000	U
100-02-7	4-Nitrophenol	18000	U
132-64-9	Dibenzofuran	3700	U
121-14-2	2,4-Dinitrotoluene	3700	U
84-66-2	Diethylphthalate	3700	U
7005-72-3	4-Chlorophenyl-phenylether	3700	U
86-73-7	Fluorene	3700	U
100-01-6	4-Nitroaniline	18000	U
534-52-1	4,6-Dinitro-2-methylphenol	18000	U
86-30-6	N-Nitrosodiphenylamine (1)	3700	U
101-55-3	4-Bromophenyl-phenylether	3700	U
118-74-1	Hexachlorobenzene	3700	U
87-86-5	Pentachlorophenol	18000	U
85-01-8	Phenanthrene	800	J
120-12-7	Anthracene	3700	U
86-74-8	Carbazole	3700	U
84-74-2	Di-n-butylphthalate	3700	U
206-44-0	Fluoranthene	1500	J
129-00-0	Pyrene	1500	J
85-68-7	Butylbenzylphthalate	3700	U
91-94-1	3,3'-Dichlorobenzidine	7300	U
56-55-3	Benzo(a)anthracene	840	J
218-01-9	Chrysene	1000	J
117-81-7	bis(2-Ethylhexyl)phthalate	3700	U
117-84-0	Di-n-octylphthalate	3700	U
205-99-2	Benzo(b)fluoranthene	790	J
207-08-9	Benzo(k)fluoranthene	580	J
50-32-8	Benzo(a)pyrene	740	J
193-39-5	Indeno(1,2,3-cd)pyrene	3700	U
53-70-3	Dibenz(a,h)anthracene	3700	U
191-24-2	Benzo(g,h,i)perylene	420	J

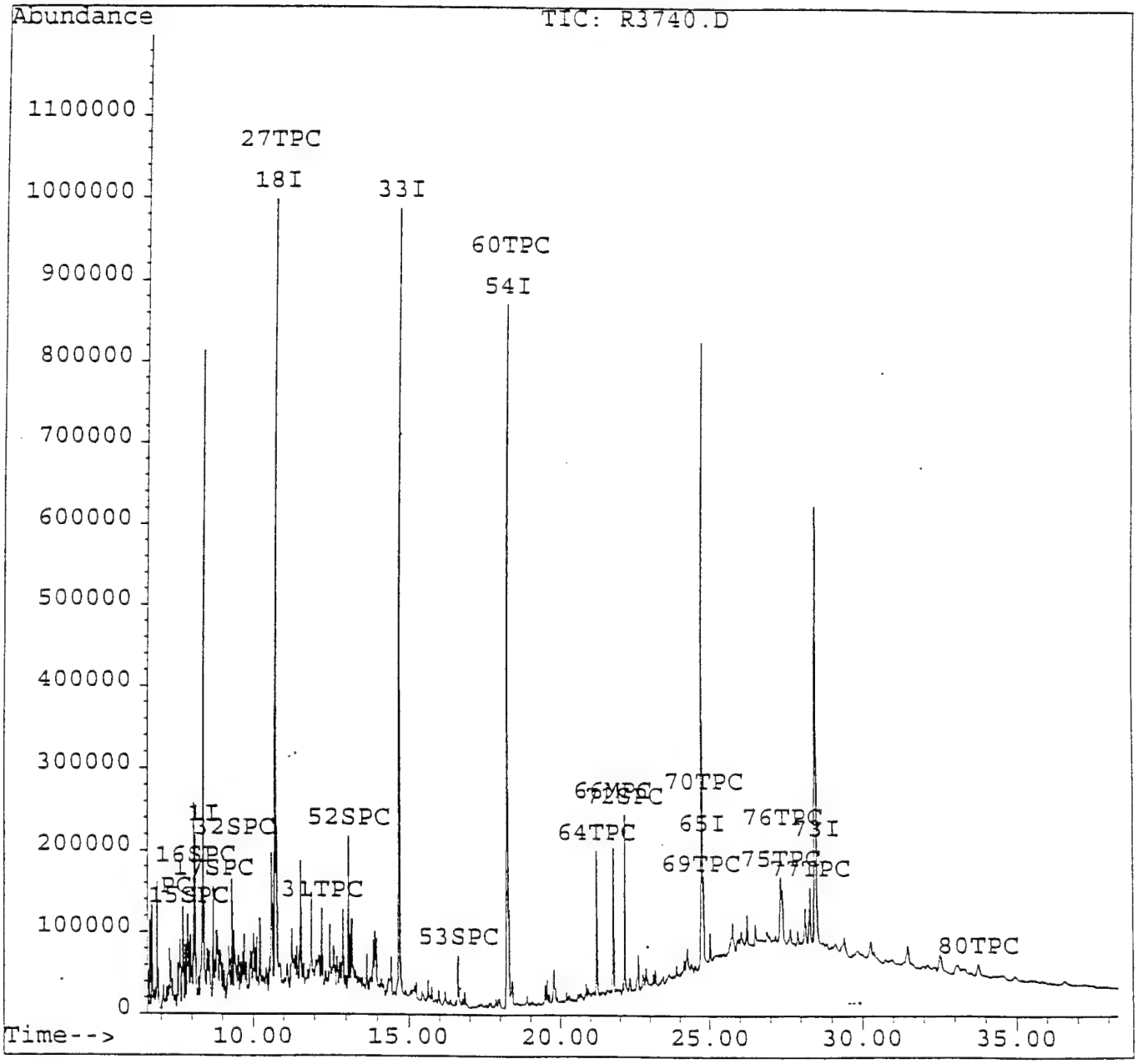
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0412\r3740.d
Acq On : 13 Apr 95 3:11 am
Sample : 2349003,1-16-2,
Misc : 10,,,05-APR-95,30,10,T8270, SOIL
Quant Time: Apr 13 11:55 1995

Vial: 51
Operator: Francisco
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Single Level Calibration



000012

Quantitation Report

Data File : c:\hpchem\1\data\0412\r3740.d
Acq On : 13 Apr 95 3:11 am
Sample : 2349003,1-16-2,
Misc : 10,,,05-APR-95,30,10,T8270, SOIL
Quant Time: Apr 13 11:55 1995

Vial: 51
Operator: Francis
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\r3737.d

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min
1) 1,4-Dichlorobenzene-D4	8.40	152	281141	20.00 ug/L	0.0
18) Naphthalene-D8	10.73	136	945107	20.00 ug/L	0.0
33) Acenaphthene-d10	14.70	164	510423	20.00 ug/L	0.00
54) Phenanthrene-D10	18.25	188	803325	20.00 ug/L	0.0
65) Chrysene-D12	24.77	240	583189	20.00 ug/L	0.0
73) Perylene-D12	28.51	264	691074	20.00 ug/L	0.02
System Monitoring Compounds					%Recovery
14) 2-Fluorophenol	6.70	112	79835	4.04 ug/L	5.39
15) Phenol-d5	7.90	99	86697	4.14 ug/L	5.52%
16) 2-Chlorophenol-d4	8.12	132	95442	4.73 ug/L	6.30
17) 1,2-Dichlorobenzene-d4	8.71	150	63689	2.96 ug/L	5.91
32) Nitrobenzene-d5	9.39	82	48598	3.14 ug/L	6.29%
52) 2-Fluorobiphenyl	13.10	172	128792	4.09 ug/L	8.18
53) 2,4,6-Tribromophenol	16.63	330	21469	3.49 ug/L	4.66
72) Terphenyl-d14	22.16	244	150568	6.06 ug/L	12.12%
Target Compounds					Qvalue
27) Naphthalene	10.77	128	46718	1.01 ug/L	98
31) 2-Methylnaphthalene	12.24	142	61533	1.96 ug/L	97
60) Phenanthrene	18.30	178	95923	2.17 ug/L	98
64) Fluoranthene	21.22	202	164221	4.04 ug/L	83
66) Pyrene	21.78	202	153102	4.08 ug/L	78
69) Benzo(a)anthracene	24.72	228	71217	2.30 ug/L	99
70) Chrysene	24.82	228	69666	2.87 ug/L	99
75) Benzo(b)fluoranthene	27.36	252	76935	2.15 ug/L	98
76) Benzo(k)fluoranthene	27.41	252	46277	1.59 ug/L	98
77) Benzo(a)pyrene	28.30	252	64822	2.02 ug/L	98
80) Benzo(g,h,i)perylene	33.76	276	30793	1.14 ug/L	78

(#) = qualifier out of range (m) = manual integration

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-17-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349004

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3747.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 3 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)Ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
59-50-7	4-Chloro-3-Methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-17-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349004

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3747.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 3 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	43	J
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenz(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

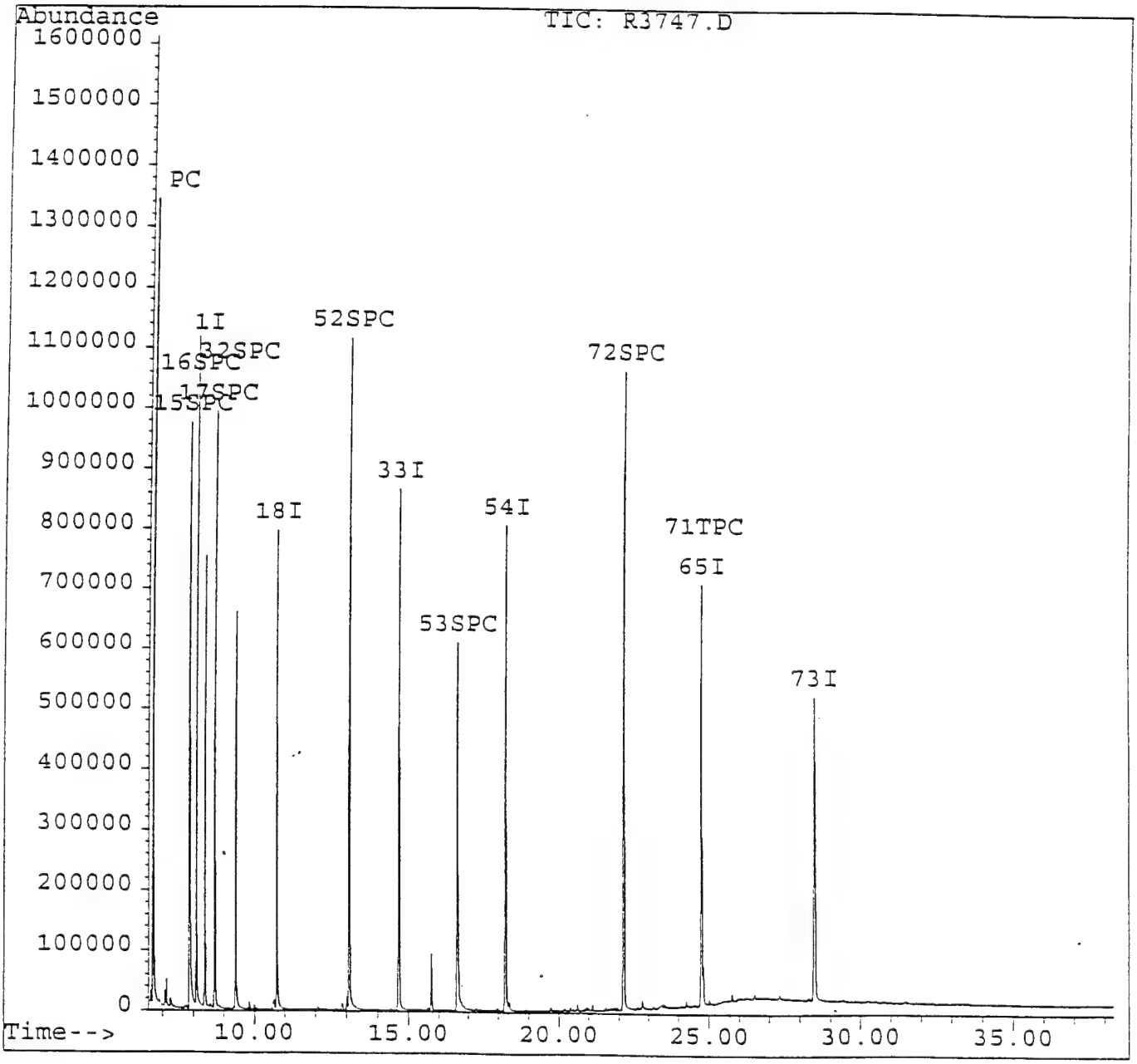
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0412\r3747.d
Acq On : 13 Apr 95 8:42 am
Sample : 2349004,1-17-1,
Misc : 1,,,05-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 12:01 1995

Vial: 58
Operator: Francisco
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\ANILINE.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 14:54:03 1995
Response via : Single Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data\0412\r3747.d
Acq On : 13 Apr 95 8:42 am
Sample : 2349004,1-17-1,
Misc : 1,,,05-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 12:01 1995

Vial: 58
Operator: Francisc
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\r3737.d

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	8.40	152	255519	20.00 ug/L	0.02
18) Naphthalene-D8	10.73	136	874994	20.00 ug/L	0.00
33) Acenaphthene-d10	14.70	164	466655	20.00 ug/L	0.00
54) Phenanthrene-D10	18.25	188	720841	20.00 ug/L	0.00
65) Chrysene-D12	24.77	240	544915	20.00 ug/L	0.00
73) Perylene-D12	28.49	264	604887	20.00 ug/L	0.00
System Monitoring Compounds					%Recovery
14) 2-Fluorophenol	6.70	112	630171	35.13 ug/L	46.84
15) Phenol-d5	7.88	99	726632	38.18 ug/L	50.91%
16) 2-Chlorophenol-d4	8.11	132	689258	37.55 ug/L	50.06
17) 1,2-Dichlorobenzene-d4	8.71	150	505349	25.80 ug/L	51.
32) Nitrobenzene-d5	9.39	82	417244	29.15 ug/L	53.
52) 2-Fluorobiphenyl	13.10	172	884690	30.73 ug/L	61.46
53) 2,4,6-Tribromophenol	16.63	330	211907	37.71 ug/L	50.28
72) Terphenyl-d14	22.18	244	850301	36.63 ug/L	73.27%
Target Compounds					Qvalue
71) Bis(2-ethylhexyl)phthalate	24.82	149	42156	1.25 ug/L	96

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-17-2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349007

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3741.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 8 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	360	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-17-2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349007

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3741.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 8 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	720	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	40	J
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenz(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

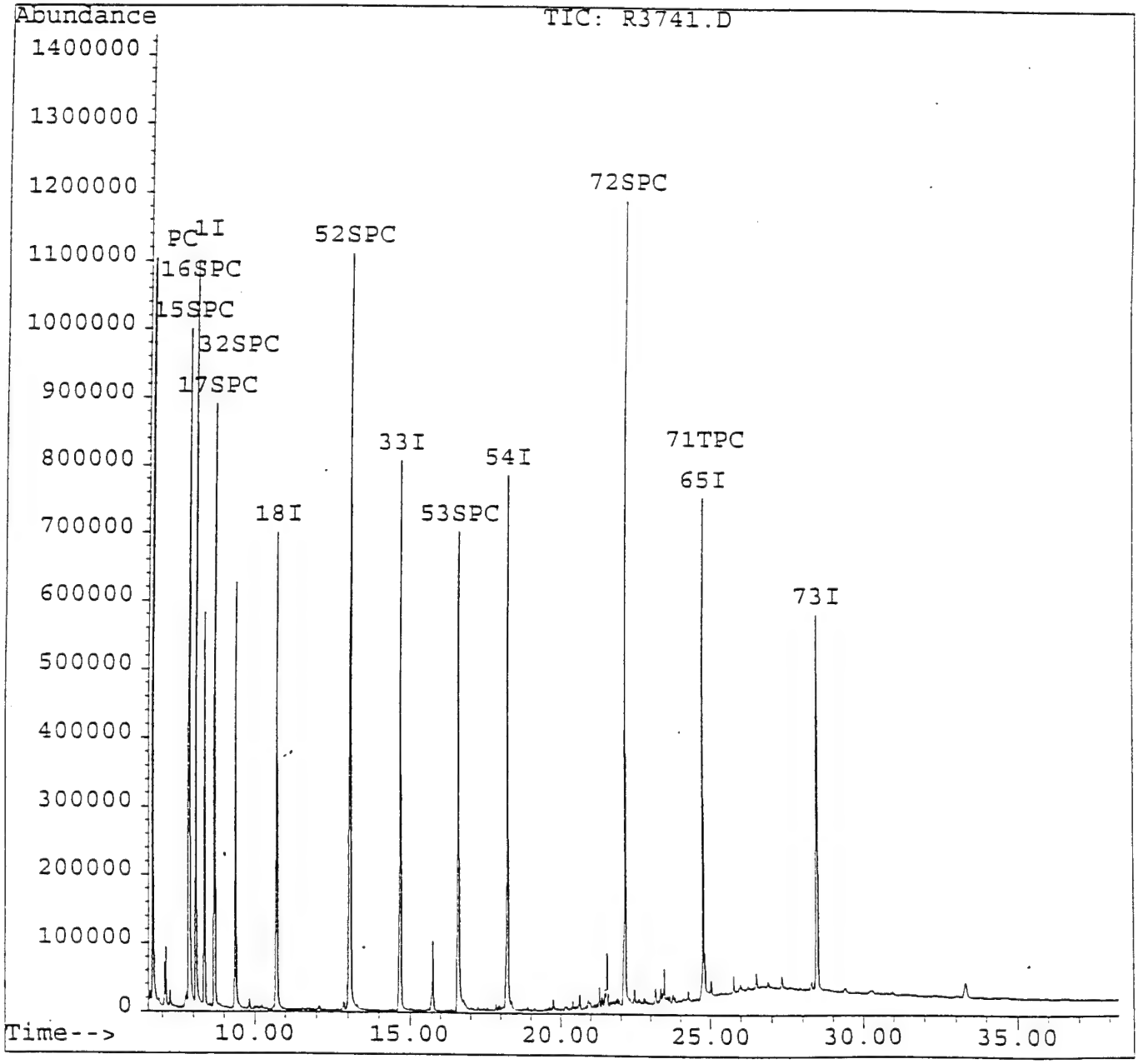
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0412\r3741.d
Acq On : 13 Apr 95 3:59 am
Sample : 2349007,1-17-2,
Misc : 1,,,05-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 11:56 1995

Vial: 52
Operator: Francisco
Inst : HPR
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Single Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data\0412\r3741.d
Acq On : 13 Apr 95 3:59 am
Sample : 2349007,1-17-2,
Misc : 1,,,05-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 11:56 1995

Vial: 52
Operator: Francisc
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\r3737.d

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min
1) 1,4-Dichlorobenzene-D4	8.38	152	290495	20.00 ug/L	0.00
18) Naphthalene-D8	10.73	136	992650	20.00 ug/L	0.00
33) Acenaphthene-d10	14.70	164	523814	20.00 ug/L	0.00
54) Phenanthrene-D10	18.24	188	797277	20.00 ug/L	0.00
65) Chrysene-D12	24.77	240	545023	20.00 ug/L	0.00
73) Perylene-D12	28.49	264	671478	20.00 ug/L	0.00
System Monitoring Compounds					%Recovery
14) 2-Fluorophenol	6.69	112	798317	39.15 ug/L	52.19
15) Phenol-d5	7.89	99	942012	43.54 ug/L	58.05
16) 2-Chlorophenol-d4	8.10	132	948943	45.47 ug/L	60.63
17) 1,2-Dichlorobenzene-d4	8.71	150	691528	31.05 ug/L	62.11
32) Nitrobenzene-d5	9.39	82	556318	34.26 ug/L	68.52
52) 2-Fluorobiphenyl	13.10	172	1147751	35.52 ug/L	71.04
53) 2,4,6-Tribromophenol	16.63	330	264180	41.88 ug/L	55.84
72) Terphenyl-d14	22.18	244	1000194	43.08 ug/L	86.17
Target Compounds					Qvalue
71) Bis(2-ethylhexyl)phthalate	24.82	149	37539	1.11 ug/L	99

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-18-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349008

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3742.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 5 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3500	U
111-44-4	bis(2-Chloroethyl)Ether	3500	U
95-57-8	2-Chlorophenol	3500	U
541-73-1	1,3-Dichlorobenzene	3500	U
106-46-7	1,4-Dichlorobenzene	3500	U
95-50-1	1,2-Dichlorobenzene	3500	U
95-48-7	2-Methylphenol	3500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3500	U
106-44-5	4-Methylphenol	3500	U
621-64-7	N-Nitroso-di-n-propylamine	3500	U
67-72-1	Hexachloroethane	3500	U
98-95-3	Nitrobenzene	3500	U
78-59-1	Isophorone	3500	U
88-75-5	2-Nitrophenol	3500	U
105-67-9	2,4-Dimethylphenol	3500	U
120-83-2	2,4-Dichlorophenol	3500	U
120-82-1	1,2,4-Trichlorobenzene	3500	U
91-20-3	Naphthalene	3500	U
106-47-8	4-Chloroaniline	3500	U
87-68-3	Hexachlorobutadiene	3500	U
111-91-1	bis(2-Chloroethoxy)methane	3500	U
59-50-7	4-Chloro-3-Methylphenol	3500	U
91-57-6	2-Methylnaphthalene	3500	U
77-47-4	Hexachlorocyclopentadiene	3500	U
88-06-2	2,4,6-Trichlorophenol	3500	U
95-95-4	2,4,5-Trichlorophenol	18000	U
91-58-7	2-Chloronaphthalene	3500	U
88-74-4	2-Nitroaniline	18000	U
131-11-3	Dimethylphthalate	3500	U
208-96-8	Acenaphthylene	3500	U
606-20-2	2,6-Dinitrotoluene	3500	U
99-09-2	3-Nitroaniline	18000	U
83-32-9	Acenaphthene	390	J

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-18-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349008

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3742.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 5 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	18000	U
100-02-7	4-Nitrophenol	18000	U
132-64-9	Dibenzofuran	3500	U
121-14-2	2,4-Dinitrotoluene	3500	U
84-66-2	Diethylphthalate	3500	U
7005-72-3	4-Chlorophenyl-phenylether	3500	U
86-73-7	Fluorene	470	J
100-01-6	4-Nitroaniline	18000	U
534-52-1	4,6-Dinitro-2-methylphenol	18000	U
86-30-6	N-Nitrosodiphenylamine (1)	3500	U
101-55-3	4-Bromophenyl-phenylether	3500	U
118-74-1	Hexachlorobenzene	3500	U
87-86-5	Pentachlorophenol	18000	U
85-01-8	Phenanthrene	5300	
120-12-7	Anthracene	1300	J
86-74-8	Carbazole	3500	U
84-74-2	Di-n-butylphthalate	3500	U
206-44-0	Fluoranthene	7400	
129-00-0	Pyrene	7700	
85-68-7	Butylbenzylphthalate	3500	U
91-94-1	3,3'-Dichlorobenzidine	7000	U
56-55-3	Benzo(a)anthracene	4500	
218-01-9	Chrysene	5600	
117-81-7	bis(2-Ethylhexyl)phthalate	3500	U
117-84-0	Di-n-octylphthalate	3500	U
205-99-2	Benzo(b)fluoranthene	3300	J
207-08-9	Benzo(k)fluoranthene	3200	J
50-32-8	Benzo(a)pyrene	3500	J
193-39-5	Indeno(1,2,3-cd)pyrene	1600	J
53-70-3	Dibenz(a,h)anthracene	3500	U
191-24-2	Benzo(g,h,i)perylene	1600	J

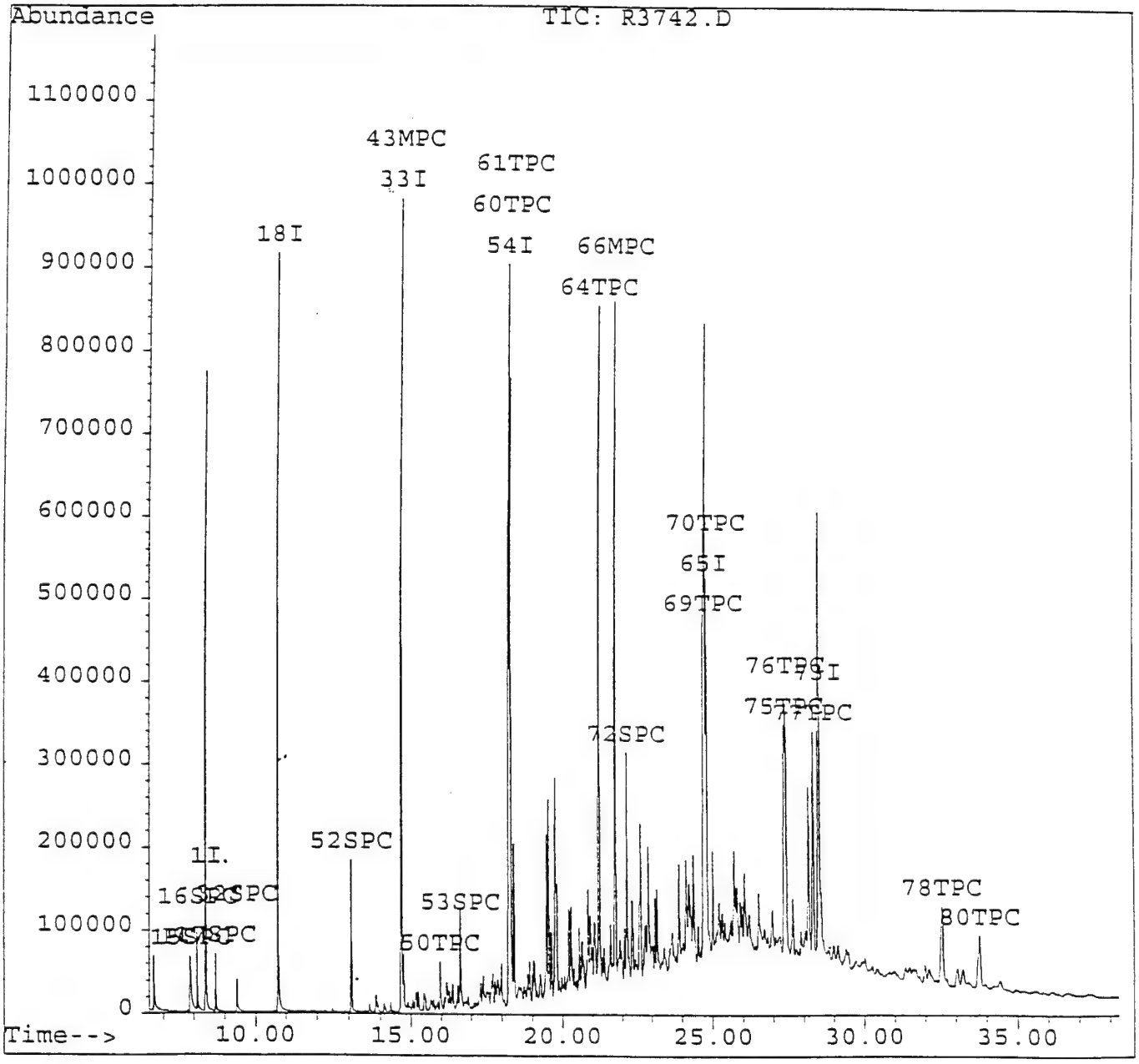
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0412\r3742.d
Acq On : 13 Apr 95 4:46 am
Sample : 2349008,1-18-1,
Misc : 10,,,05-APR-95,30,10,T8270, SOIL
Quant Time: Apr 13 14:13 1995

Vial: 53
Operator: Francisco
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Single Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data\0412\r3742.d
Acq On : 13 Apr 95 4:46 am
Sample : 2349008,1-18-1,
Misc : 10,,,05-APR-95,30,10,T8270, SOIL
Quant Time: Apr 13 14:13 1995

Vial: 53
Operator: Francisc
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\r3737.d

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min
1) 1,4-Dichlorobenzene-D4	8.40	152	281137	20.00 ug/L	0.02
18) Naphthalene-D8	10.73	136	944105	20.00 ug/L	0.00
33) Acenaphthene-d10	14.70	164	504913	20.00 ug/L	0.00
54) Phenanthrene-D10	18.25	188	784159	20.00 ug/L	0.00
65) Chrysene-D12	24.77	240	545888	20.00 ug/L	0.00
73) Perylene-D12	28.51	264	658793	20.00 ug/L	0.02
System Monitoring Compounds					%Recovery
14) 2-Fluorophenol	6.70	112	49557	2.51 ug/L	3.35
15) Phenol-d5	7.90	99	75427	3.60 ug/L	4.80%
16) 2-Chlorophenol-d4	8.12	132	74673	3.70 ug/L	4.93
17) 1,2-Dichlorobenzene-d4	8.72	150	36797	1.71 ug/L	3.41
32) Nitrobenzene-d5	9.39	82	28647	1.85 ug/L	3.71
52) 2-Fluorobiphenyl	13.10	172	135772	4.36 ug/L	8.72
53) 2,4,6-Tribromophenol	16.63	330	36967	6.08 ug/L	8.11
72) Terphenyl-d14	22.16	244	173165	7.45 ug/L	14.89
Target Compounds					Qvalue
43) Acenaphthene	14.77	153	33975	1.10 ug/L	99
50) Fluorene	15.97	166	38568	1.33 ug/L #	99
60) Phenanthrene	18.30	178	656562	15.25 ug/L	99
61) Anthracene	18.40	178	156564	3.83 ug/L	97
64) Fluoranthene	21.24	202	832416	21.00 ug/L	83
66) Pyrene	21.78	202	772356	22.01 ug/L	87
69) Benzo(a)anthracene	24.72	228	369069	12.73 ug/L	98
70) Chrysene	24.82	228	360993	15.86 ug/L	98
75) Benzo(b)fluoranthene	27.38	252	317173	9.30 ug/L	98
76) Benzo(k)fluoranthene	27.43	252	249075	9.00 ug/L	96
77) Benzo(a)pyrene	28.32	252	303908	9.94 ug/L	98
78) Indeno(1,2,3-cd)pyrene	32.53	276	145655	4.57 ug/L	96
80) Benzo(g,h,i)perylene	33.76	276	117763	4.56 ug/L	74

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-18-2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349009

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3743.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 8 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	7200	U
111-44-4	bis(2-Chloroethyl)Ether	7200	U
95-57-8	2-Chlorophenol	7200	U
541-73-1	1,3-Dichlorobenzene	7200	U
106-46-7	1,4-Dichlorobenzene	7200	U
95-50-1	1,2-Dichlorobenzene	7200	U
95-48-7	2-Methylphenol	7200	U
108-60-1	2,2'-oxybis(1-Chloropropane)	7200	U
106-44-5	4-Methylphenol	7200	U
621-64-7	N-Nitroso-di-n-propylamine	7200	U
67-72-1	Hexachloroethane	7200	U
98-95-3	Nitrobenzene	7200	U
78-59-1	Isophorone	7200	U
88-75-5	2-Nitrophenol	7200	U
105-67-9	2,4-Dimethylphenol	7200	U
120-83-2	2,4-Dichlorophenol	7200	U
120-82-1	1,2,4-Trichlorobenzene	7200	U
91-20-3	Naphthalene	7200	U
106-47-8	4-Chloroaniline	7200	U
87-68-3	Hexachlorobutadiene	7200	U
111-91-1	bis(2-Chloroethoxy)methane	7200	U
59-50-7	4-Chloro-3-Methylphenol	7200	U
91-57-6	2-Methylnaphthalene	7200	U
77-47-4	Hexachlorocyclopentadiene	7200	U
88-06-2	2,4,6-Trichlorophenol	7200	U
95-95-4	2,4,5-Trichlorophenol	36000	U
91-58-7	2-Chloronaphthalene	7200	U
88-74-4	2-Nitroaniline	36000	U
131-11-3	Dimethylphthalate	7200	U
208-96-8	Acenaphthylene	7200	U
606-20-2	2,6-Dinitrotoluene	7200	U
99-09-2	3-Nitroaniline	36000	U
83-32-9	Acenaphthene	7200	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-18-2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349009

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3743.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 8 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	36000	U
100-02-7	4-Nitrophenol	36000	U
132-64-9	Dibenzofuran	7200	U
121-14-2	2,4-Dinitrotoluene	7200	U
84-66-2	Diethylphthalate	7200	U
7005-72-3	4-Chlorophenyl-phenylether	7200	U
86-73-7	Fluorene	7200	U
100-01-6	4-Nitroaniline	36000	U
534-52-1	4,6-Dinitro-2-methylphenol	36000	U
86-30-6	N-Nitrosodiphenylamine (1)	7200	U
101-55-3	4-Bromophenyl-phenylether	7200	U
118-74-1	Hexachlorobenzene	7200	U
87-86-5	Pentachlorophenol	36000	U
85-01-8	Phenanthrene	7200	U
120-12-7	Anthracene	7200	U
86-74-8	Carbazole	7200	U
84-74-2	Di-n-butylphthalate	7200	U
206-44-0	Fluoranthene	7200	U
129-00-0	Pyrene	7200	U
85-68-7	Butylbenzylphthalate	7200	U
91-94-1	3,3'-Dichlorobenzidine	14000	U
56-55-3	Benzo(a)anthracene	7200	U
218-01-9	Chrysene	7200	U
117-81-7	bis(2-Ethylhexyl)phthalate	7200	U
117-84-0	Di-n-octylphthalate	7200	U
205-99-2	Benzo(b)fluoranthene	7200	U
207-08-9	Benzo(k)fluoranthene	7200	U
50-32-8	Benzo(a)pyrene	7200	U
193-39-5	Indeno(1,2,3-cd)pyrene	7200	U
53-70-3	Dibenz(a,h)anthracene	7200	U
191-24-2	Benzo(g,h,i)perylene	7200	U

(1) - Cannot be separated from Diphenylamine

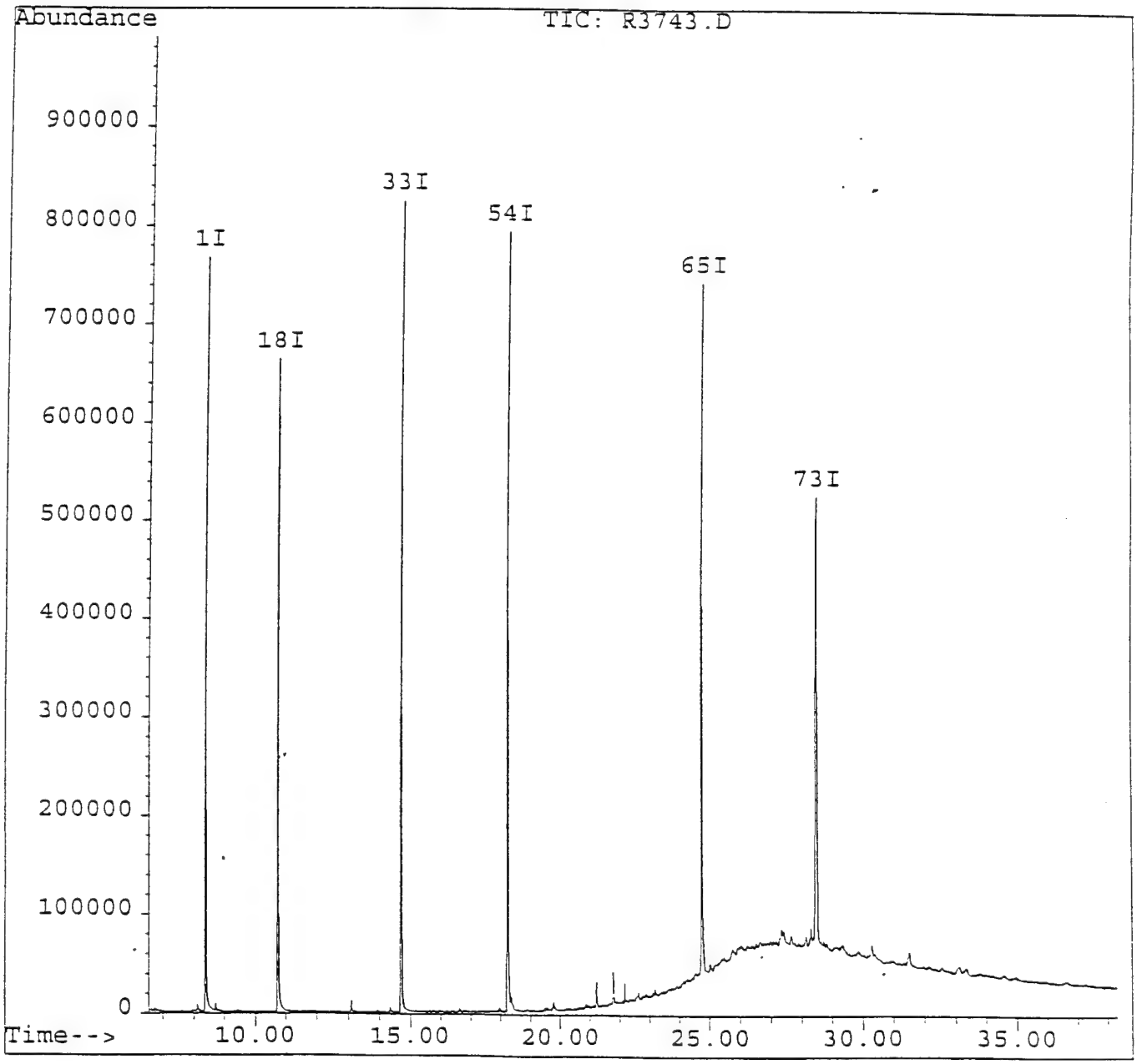
FORM I SV-2 SW846 METHOD 8270.

Quantitation Report

Data File : c:\hpchem\1\data\0412\r3743.d
Acq On : 13 Apr 95 5:33 am
Sample : 2349009,1-18-2,
Misc : 20,,,05-APR-95,30,10,T8270, SOIL
Quant Time: Apr 13 11:57 1995

Vial: 54
Operator: Francisco
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Single Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data\0412\r3743.d
Acq On : 13 Apr 95 5:33 am
Sample : 2349009,1-18-2,
Misc : 20,,,05-APR-95,30,10,T8270, SOIL
Quant Time: Apr 13 11:57 1995

Vial: 54
Operator: Francisc
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\r3737.d

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	8.40	152	231215	20.00 ug/L	0.01
18) Naphthalene-D8	10.73	136	834335	20.00 ug/L	0.00
33) Acenaphthene-d10	14.70	164	428215	20.00 ug/L	0.00
54) Phenanthrene-D10	18.24	188	672241	20.00 ug/L	0.00
65) Chrysene-D12	24.77	240	518720	20.00 ug/L	0.00
73) Perylene-D12	28.51	264	575546	20.00 ug/L	0.01

System Monitoring Compounds					%Recovery
14) 2-Fluorophenol	6.75	112	4688	0.29 ug/L	0.39%
15) Phenol-d5	7.96	99	2248	0.13 ug/L	0.17%
16) 2-Chlorophenol-d4	8.14	132	7794	0.47 ug/L	0.63%
17) 1,2-Dichlorobenzene-d4	8.71	150	6070	0.34 ug/L	0.68%
32) Nitrobenzene-d5	9.43	82	2462	0.18 ug/L	0.36%
52) 2-Fluorobiphenyl	13.11	172	12215	0.46 ug/L	0.92%
53) 2,4,6-Tribromophenol	16.64	330	1856	0.36 ug/L	0.48%
72) Terphenyl-d14	22.16	244	13616	0.62 ug/L	1.23%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-20-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349010

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3744.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 10 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	370	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-20-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349010

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3744.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 10 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	740	U
56-55-3	Benzo(a)anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	42	J
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenz(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

(1) - Cannot be separated from Diphenylamine

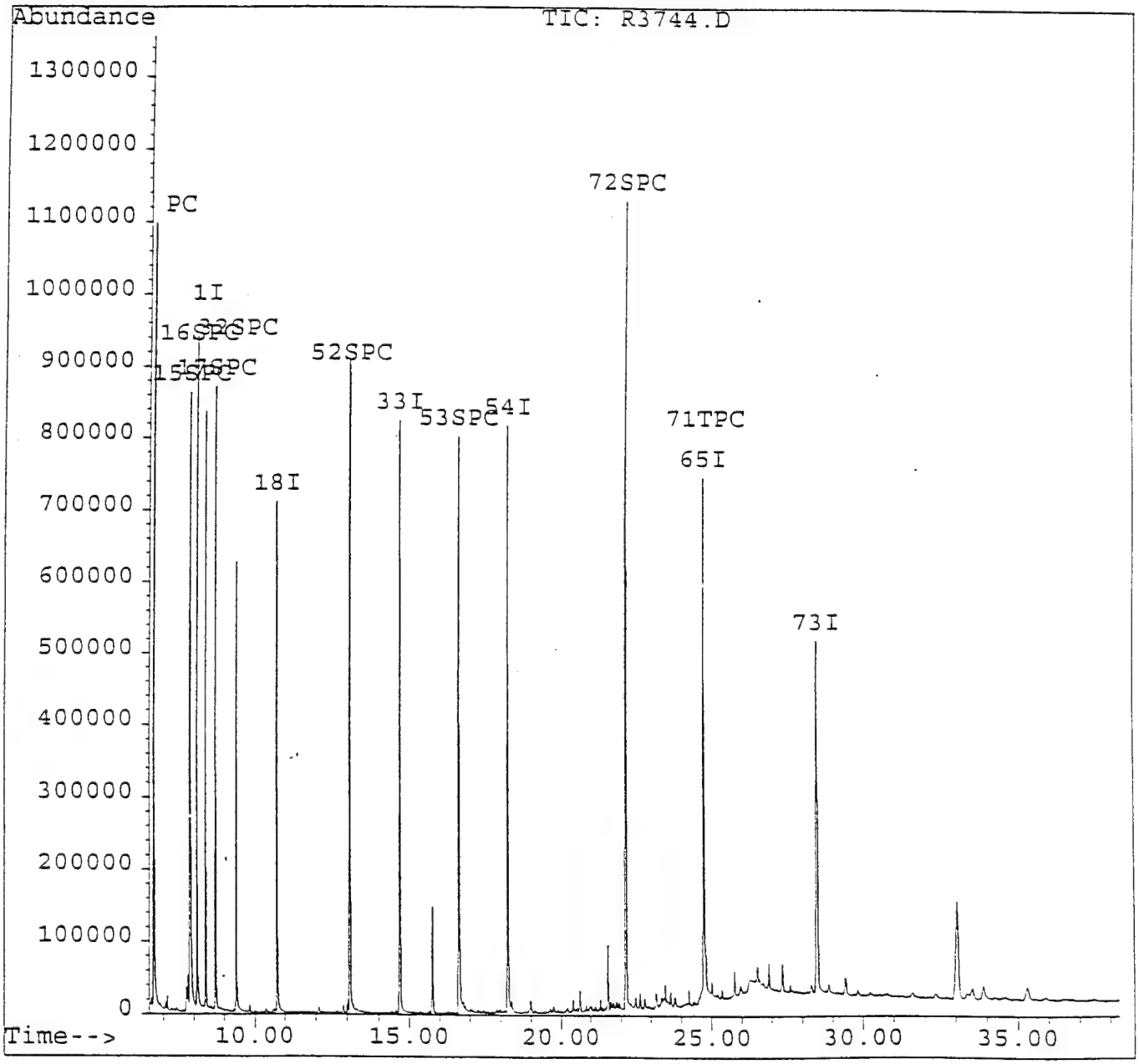
FORM I SV-2 SW846 METHOD 8270

Quantitation Report

Data File : c:\hpchem\1\data\0412\r3744.d
Acq On : 13 Apr 95 6:20 am
Sample : 2349010,1-20-1,
Misc : 1,,,05-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 11:58 1995

Vial: 55
Operator: Francisco
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Single Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data\0412\r3744.d
Acq On : 13 Apr 95 6:20 am
Sample : 2349010,1-20-1,
Misc : 1,,,05-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 11:58 1995

Vial: 55
Operator: Francisc
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\r3737.d

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min
1) 1,4-Dichlorobenzene-D4	8.40	152	248721	20.00 ug/L	0.02
18) Naphthalene-D8	10.73	136	881657	20.00 ug/L	0.00
33) Acenaphthene-d10	14.70	164	454739	20.00 ug/L	0.00
54) Phenanthrene-D10	18.25	188	699068	20.00 ug/L	0.00
65) Chrysene-D12	24.77	240	536361	20.00 ug/L	0.00
73) Perylene-D12	28.51	264	607908	20.00 ug/L	0.02
System Monitoring Compounds					%Recovery
14) 2-Fluorophenol	6.70	112	544865	31.20 ug/L	41.61
15) Phenol-d5	7.90	99	637244	34.40 ug/L	45.86%
16) 2-Chlorophenol-d4	8.12	132	636326	35.61 ug/L	47.48
17) 1,2-Dichlorobenzene-d4	8.71	150	419968	22.03 ug/L	44.05
32) Nitrobenzene-d5	9.39	82	337683	23.41 ug/L	46.83%
52) 2-Fluorobiphenyl	13.12	172	774300	27.60 ug/L	55.20
53) 2,4,6-Tribromophenol	16.63	330	235459	43.00 ug/L	57.33
72) Terphenyl-d14	22.18	244	874629	38.28 ug/L	76.57%
Target Compounds					Qvalue
71) Bis(2-ethylhexyl)phthalate	24.84	149	37238	1.12 ug/L	100

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-21-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349011

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3745.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 3 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)Ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
59-50-7	4-Chloro-3-Methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-21-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349011

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3745.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 3 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenz(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

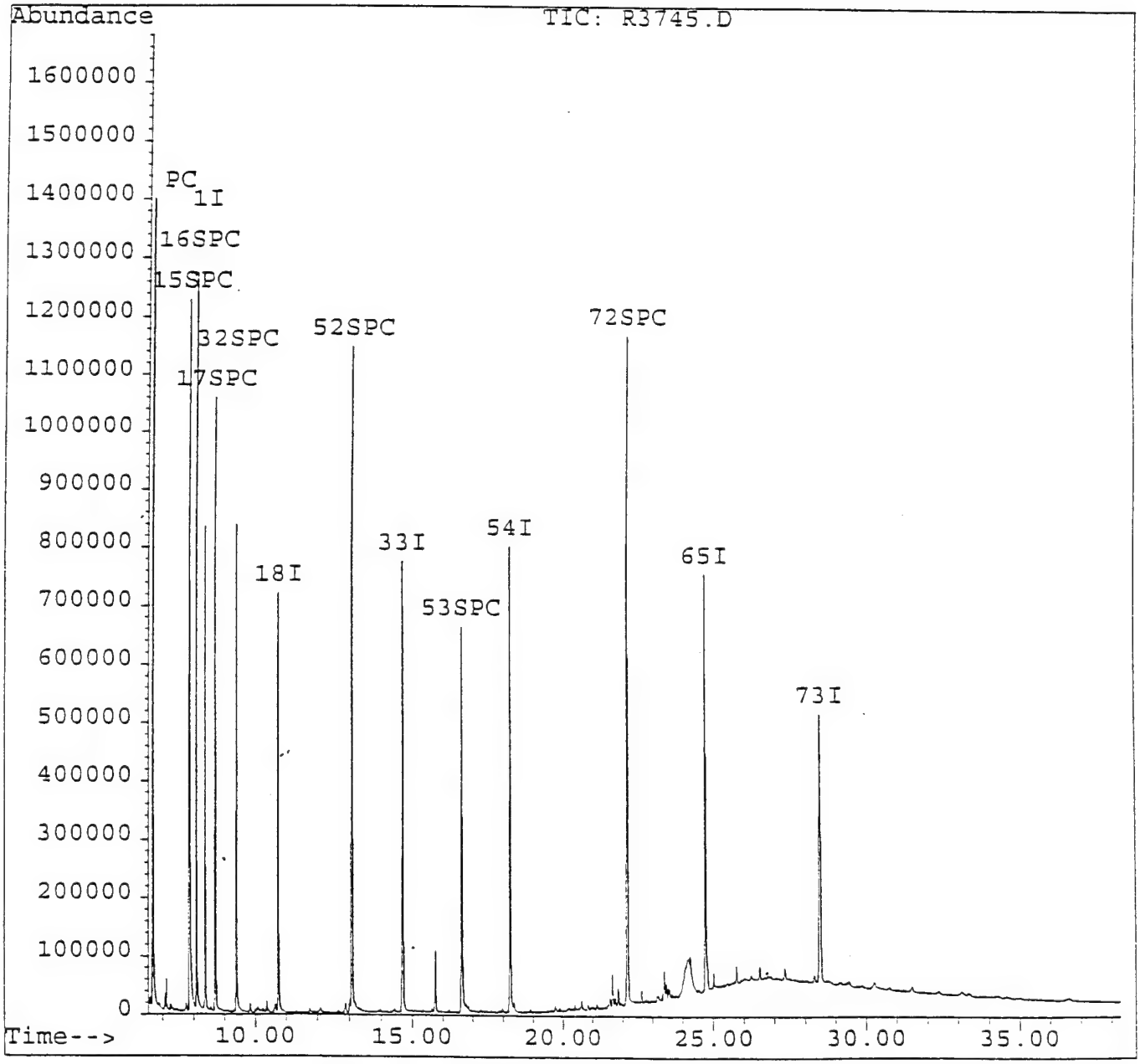
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0412\r3745.d
Acq On : 13 Apr 95 7:08 am
Sample : 2349011,1-21-1,
Misc : 1,,,05-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 11:59 1995

Vial: 56
Operator: Francisco
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Single Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data\0412\r3745.d
Acq On : 13 Apr 95 7:08 am
Sample : 2349011,1-21-1,
Misc : 1,,,05-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 11:59 1995

Vial: 56
Operator: Francis
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 13 11:51:55 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\r3737.d

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Mir
1) 1,4-Dichlorobenzene-D4	8.40	152	259038	20.00 ug/L	0.02
18) Naphthalene-D8	10.75	136	912244	20.00 ug/L	0.02
33) Acenaphthene-d10	14.70	164	474894	20.00 ug/L	0.00
54) Phenanthrene-D10	18.25	188	729987	20.00 ug/L	0.00
65) Chrysene-D12	24.77	240	539712	20.00 ug/L	0.00
73) Perylene-D12	28.51	264	593787	20.00 ug/L	0.02

System Monitoring Compounds					%Recovery
14) 2-Fluorophenol	6.70	112	650998	35.80 ug/L	47.73
15) Phenol-d5	7.90	99	789996	40.94 ug/L	54.59
16) 2-Chlorophenol-d4	8.12	132	726463	39.04 ug/L	52.05
17) 1,2-Dichlorobenzene-d4	8.71	150	562659	28.34 ug/L	56.67
32) Nitrobenzene-d5	9.39	82	462499	30.99 ug/L	61.99
52) 2-Fluorobiphenyl	13.12	172	971251	33.15 ug/L	66.31
53) 2,4,6-Tribromophenol	16.63	330	194947	34.09 ug/L	45.45
72) Terphenyl-d14	22.18	244	907554	39.48 ug/L	78.95

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FLDBK1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) WATER Lab Sample ID: 2349012

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R3647.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 0 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/06/95

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FLDBK1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) WATER Lab Sample ID: 2349012

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R3647.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 0 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/06/95

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	4	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

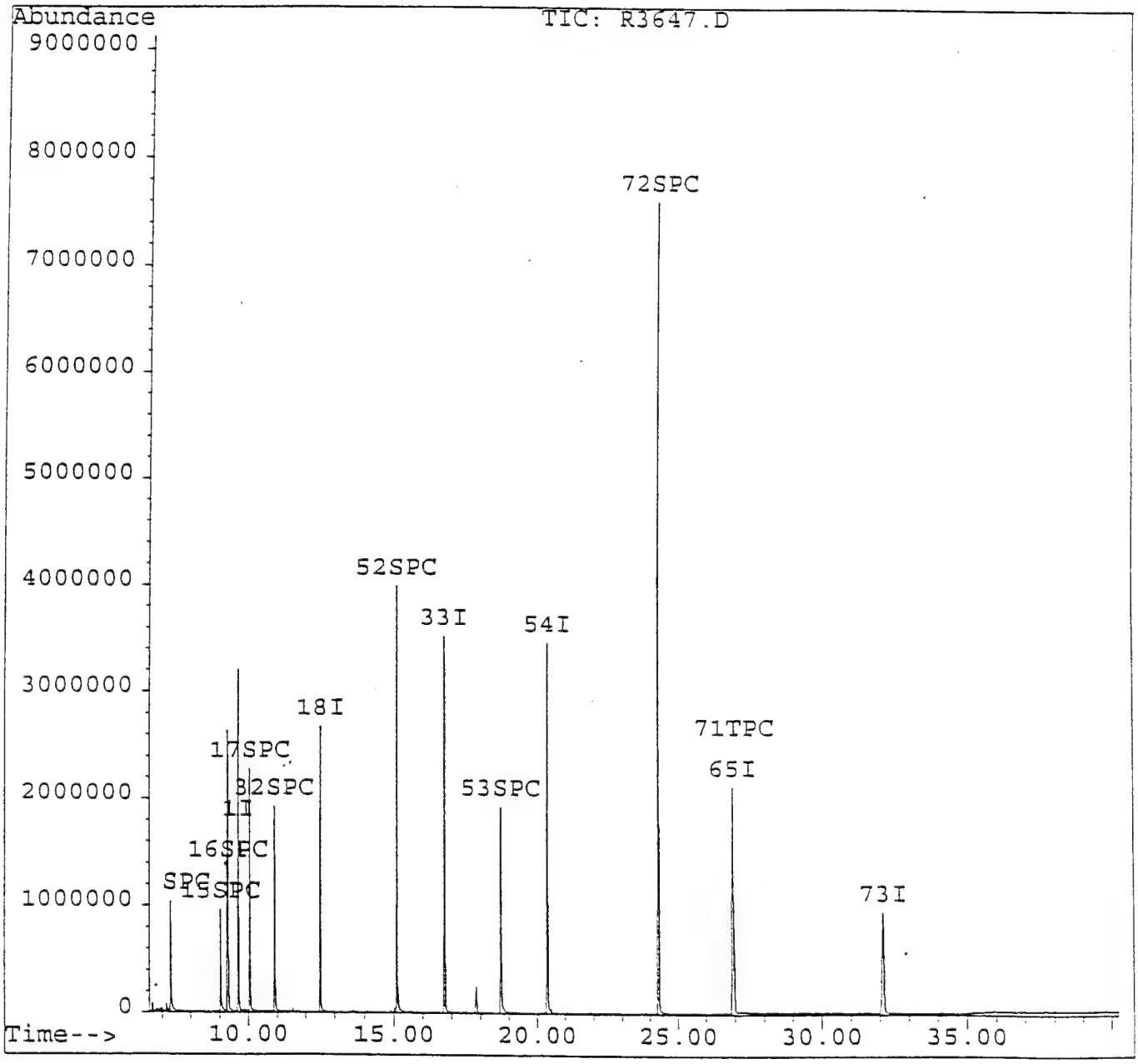
FORM I SV-2 SW846 METHOD 8270

Quantitation Report

Data File : c:\hpchem\1\data\0406\r3647.d
Acq On : 6 Apr 95 20:38 pm
Sample : 2349012,FLDBK1,
Misc : 1,5,,05-APR-95,1000,1,T8270,WATER
Quant Time: Apr 6 21:19 1995

Vial: 12
Operator: Francisco
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Wed Apr 12 10:02:10 1995
Response via : Single Level Calibration



000040

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKP15

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix: (soil/water) SOIL Lab Sample ID: VBLKP15

Sample wt/vol: 5.0 (g/mL) G Lab File ID: P4193.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 Data Analyzed: 04/06/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

FORM I VOA SW846 METHOD 8240A

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKN1	108	114	92		0
02	FLDBK1	109	110	94		0
03	EQPBK1	108	113	94		0
04	TRIP-1	108	113	94		0
05	VBLKN02	93	91	94		0
06	TRIP-2	92	90	94		0
07	EQPBK2	93	91	95		0
08	FLDBK2	92	92	95		0
09	TRIP-3	92	91	95		0
10	TRIP-4	92	91	96		0
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

000078

FORM II VOA-1 SW846 METHOD 8240A

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKP14	101	100	101		0
02	1-16-1	100	98	101		0
03	1-16-D	101	96	100		0
04	1-16-2	110	109	103		0
05	1-17-1MS	99	98	99		0
06	1-17-1MSD	114	82	99		0
07	1-17-2	109	88	98		0
08	1-18-1	111	82	96		0
09	1-18-2	112	80	93		0
10	VBLKP15	99	100	100		0
11	1-17-1	112	86	99		0
12	1-20-1	100	98	99		0
13	1-21-1	101	97	98		0
14	1-16-2DL	101	114	113		0
15	1-22-1D	108	86	93		0
16	1-23-1	101	95	96		0
17	1-22-1	101	96	96		0
18	1-19-1	103	94	96		0
19	1-19-2	107	88	98		0
20	1-24-1	101	95	98		0
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(81-117)
SMC2 (BFB)	= Bromofluorobenzene	(74-121)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

000079

FORM II VOA-2 SW846 METHOD 8240A

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Matrix Spike - EPA Sample No.: 1-17-1 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	52	0	48	92	59-172
Trichloroethene	52	0	59	113	62-137
Benzene	52	0	59	113	66-142
Toluene	52	4	62	112	59-139
Chlorobenzene	52	0	64	123	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	52	45	86	7	22	59-172
Trichloroethene	52	52	100	12	24	62-137
Benzene	52	59	113	0	21	66-142
Toluene	52	72	131	16	21	59-139
Chlorobenzene	52	63	121	2	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Lab File ID: N1415.D BFB Injection Date: 03/16/95

Instrument ID: HPN BFB Injection Time: 1628

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	43.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	62.4
175	5.0 - 9.0% of mass 174	4.2 (6.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	60.4 (96.8)1
177	5.0 - 9.0% of mass 176	4.0 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD^10N	VSTD010N	N1416.D	03/16/95	1642
02	VSTD020N	VSTD020N	N1417.D	03/16/95	1717
03	VSTD050N	VSTD050N	N1418.D	03/16/95	1752
04	VSTD100N	VSTD100N	N1419.D	03/16/95	1827
05	VSTD200N	VSTD200N	N1420.D	03/16/95	1902
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Lab File ID: N1676.D BFB Injection Date: 04/06/95

Instrument ID: HPN BFB Injection Time: 0856

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	43.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	67.0
175	5.0 - 9.0% of mass 174	4.6 (6.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	65.3 (97.5)1
177	5.0 - 9.0% of mass 176	4.1 (6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050N7	VSTD050N7	N1677.D	04/06/95	0913
02	VBLKN1	VBLKN1	N1678.D	04/06/95	1011
03	FLDBK1	2349012	N1679.D	04/06/95	1106
04	EQPBK1	2349013	N1680.D	04/06/95	1140
05	TRIP-1	2349014	N1681.D	04/06/95	1215
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Lab File ID: N1693.D BFB Injection Date: 04/06/95

Instrument ID: HPN BFB Injection Time: 1943

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.7
75	30.0 - 60.0% of mass 95	43.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	66.7
175	5.0 - 9.0% of mass 174	5.1 (7.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	63.8 (95.6)1
177	5.0 - 9.0% of mass 176	4.3 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050N8	VSTD050N8	N1694.D	04/06/95	2001
02	VBLKN02	VBLKN02	N1695.D	04/06/95	2036
03	TRIP-2	2349015	N1697.D	04/06/95	2146
04	EQPBK2	2350507	N1701.D	04/07/95	0007
05	FLDBK2	2350508	N1702.D	04/07/95	0042
06	TRIP-3	2350509	N1703.D	04/07/95	0118
07	TRIP-4	2350510	N1704.D	04/07/95	0153
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Lab File ID: P3830.D BFB Injection Date: 03/17/95

Instrument ID: HPP BFB Injection Time: 0800

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.0
75	30.0 - 60.0% of mass 95	41.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	79.4
175	5.0 - 9.0% of mass 174	5.9 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	77.4 (97.5)1
177	5.0 - 9.0% of mass 176	4.9 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010P0	VSTD010P0	P3832.D	03/17/95	0849
02	VSTD020P0	VSTD020P0	P3833.D	03/17/95	0924
03	VSTD050P0	VSTD050P0	P3834.D	03/17/95	0958
04	VSTD100P0	VSTD100P0	P3835.D	03/17/95	1032
05	VSTD200P0	VSTD200P0	P3836.D	03/17/95	1107
06					
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1

Lab File ID: P4166.D BFB Injection Date: 04/05/95

Instrument ID: HPP BFB Injection Time: 0922

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 60.0% of mass 95	41.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	62.0
175	5.0 - 9.0% of mass 174	4.2 (6.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	60.8 (98.1)1
177	5.0 - 9.0% of mass 176	3.9 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD^50P9	VSTD050P9	P4167.D	04/05/95	0934
02	VBLKP14	VBLKP14	P4168.D	04/05/95	1034
03	1-16-1	2349001	P4179.D	04/05/95	1702
04	1-16-D	2349002	P4180.D	04/05/95	1735
05	1-16-2	2349003	P4181.D	04/05/95	1807
06	1-17-1MS	2349005	P4183.D	04/05/95	1912
07	1-17-1MSD	2349006	P4184.D	04/05/95	1945
08	1-17-2	2349007	P4185.D	04/05/95	2017
09	1-18-1	2349008	P4186.D	04/05/95	2050
10	1-18-2	2349009	P4187.D	04/05/95	2122
11					
12					
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19					
20					
21					
22					

WATER CHEMISTRY DATA

NYTEST ENVIRONMENTAL, INC.

REPORT OF ANALYSIS

We find as follows :

Log In No : 23490

Results in mg/Kg(dry basis) :

Sample Identification		Parameter(s) Total Petroleum Hydrocarbons	
Water Method Blank		1 U	mg/L
Water Method Detection Limit		1	mg/L
Soil Method Blank		10 U	
Soil Method Detection Limit		10	
LAB ID	CLIENT ID		
2349001	1-16-1	140	
2349002	1-16-D	120	
2349003	1-16-2	1300	
2349004	1-17-1	95	
2349005	1-17-1MS	100	
2349007	1-17-2	110	
2349008	1-18-1	130	
2349009	1-18-2	6300	
2349010	1-20-1	190	
2349011	1-21-1	140	
2349012	FLDBK1	1 U	mg/L
2349013	EQPBK1	1 U	mg/L

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SEMIVOLATILE DATA

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-16-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349001

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3738.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 5 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	350	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-16-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2349001

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3738.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 5 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	100	J
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenz(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0406\r3647.d
Acq On : 6 Apr 95 20:38 pm
Sample : 2349012,FLDBK1,
Misc : 1,5,,05-APR-95,1000,1,T8270,WATER
Quant Time: Apr 6 21:19 1995

Vial: 12
Operator: Francisco
Inst : HPR
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 06 17:35:33 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0406\R3638.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	9.66	152	1036921	20.00	ug/L	0.00
18) Naphthalene-D8	12.51	136	2569039	20.00	ug/L	0.00
33) Acenaphthene-d10	16.76	164	2010125	20.00	ug/L	-0.02
54) Phenanthrene-D10	20.37	188	2446636	20.00	ug/L	0.00
65) Chrysene-D12	26.93	240	1094919	20.00	ug/L	-0.02
73) Perylene-D12	32.12	264	1254625	20.00	ug/L	-0.02
System Monitoring Compounds						**%Recovery**
14) 2-Fluorophenol	7.29	112	648292	17.39	ug/L	23.18%
15) Phenol-d5	9.03	99	525060	10.66	ug/L	14.21%
16) 2-Chlorophenol-d4	9.29	132	1588901	31.92	ug/L	42.56%
17) 1,2-Dichlorobenzene-d4	10.06	150	1165844	13.76	ug/L	27.51%
32) Nitrobenzene-d5	10.91	82	1114463	24.83	ug/L	49.65%
52) 2-Fluorobiphenyl	15.10	172	2733366	20.22	ug/L	40.44%
53) 2,4,6-Tribromophenol	18.74	330	356143	36.18	ug/L	48.24%
72) Terphenyl-d14	24.32	244	3257936	68.94	ug/L	137.88%
Target Compounds						**Qvalue**
71) Bis(2-ethylhexyl)phthalate	26.98	149	660856	3.52	ug/L	98

4/12/95

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQPBK1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) WATER Lab Sample ID: 2349013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R3648.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 0 dec. Date Extracted:04/05/95

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/06/95

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQPBK1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) WATER Lab Sample ID: 2349013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R3648.D

Level: (low/med) LOW Date Received: 04/05/95

% Moisture: not dec. 0 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/06/95

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

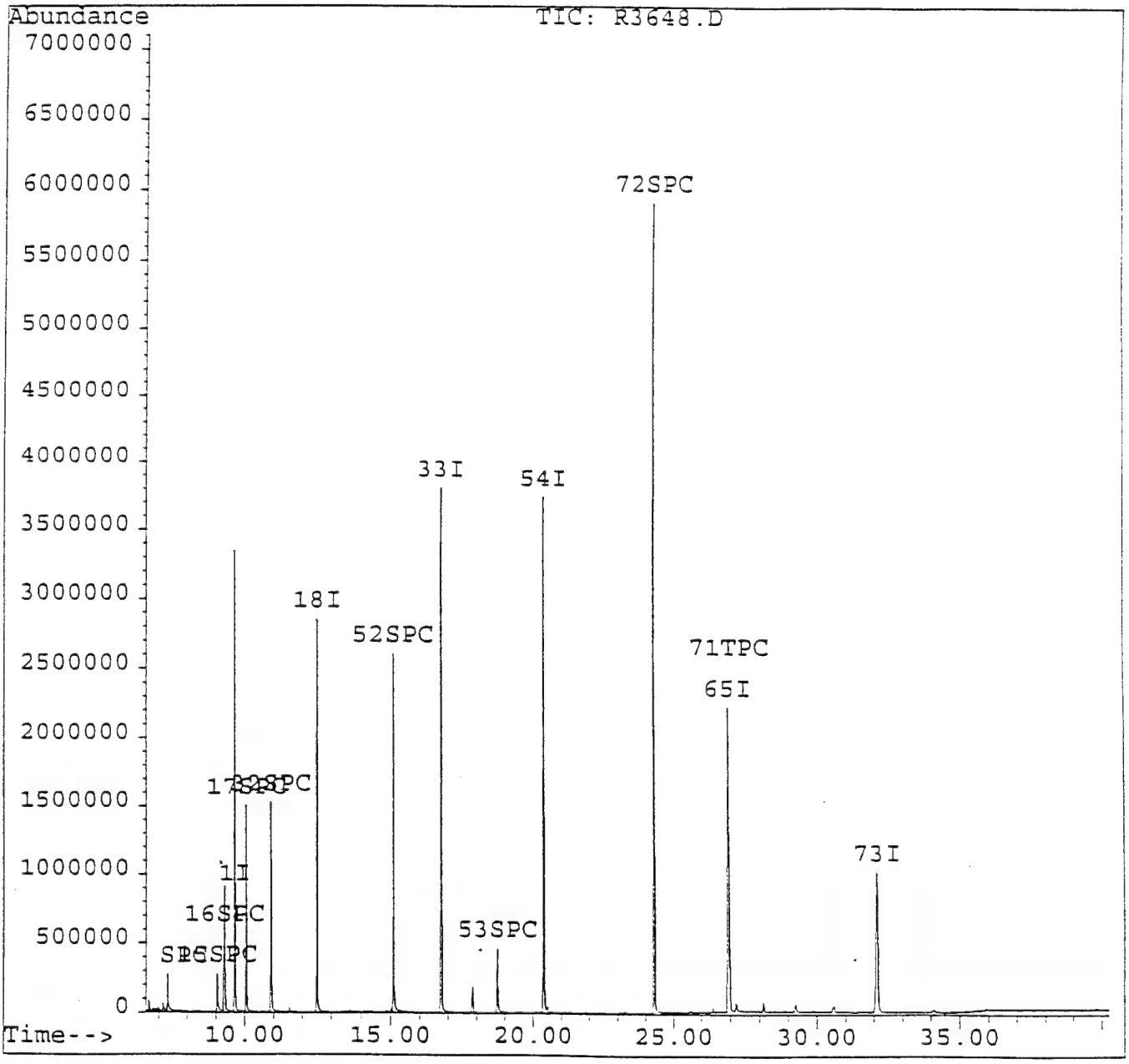
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0406\r3648.d
Acq On : 6 Apr 95 21:28 pm
Sample : 2349013,EQPBK1
Misc : 1,5,,05-APR-95,1000,1,T8270,WATER
Quant Time: Apr 6 22:09 1995

Vial: 13
Operator: Francisco
Inst : HPR
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Wed Apr 12 10:02:10 1995
Response via : Single Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data\0406\r3648.d
Acq On : 6 Apr 95 21:28 pm
Sample : 2349013,EQPBK1
Misc : 1,5,,05-APR-95,1000,1,T8270,WATER
Quant Time: Apr 6 22:09 1995

Vial: 13
Operator: Francisco
Inst : HPR
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270R.M
Title : 390/ASP/SW846
Last Update : Thu Apr 06 17:35:33 1995
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\0406\R3638.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	9.66	152	1101747	20.00 ug/L	0.00
18) Naphthalene-D8	12.51	136	2783981	20.00 ug/L	0.00
33) Acenaphthene-d10	16.77	164	2163533	20.00 ug/L	0.00
54) Phenanthrene-D10	20.37	188	2636422	20.00 ug/L	0.00
65) Chrysene-D12	26.93	240	1178081	20.00 ug/L	-0.02
73) Perylene-D12	32.11	264	1371825	20.00 ug/L	-0.02
System Monitoring Compounds					%Recovery
14) 2-Fluorophenol	7.31	112	171731	4.33 ug/L	5.78%
15) Phenol-d5	9.03	99	225726	4.31 ug/L	5.75%
16) 2-Chlorophenol-d4	9.29	132	518620	9.81 ug/L	13.07%
17) 1,2-Dichlorobenzene-d4	10.06	150	807397	8.97 ug/L	17.93%
32) Nitrobenzene-d5	10.91	82	909917	18.71 ug/L	37.41%
52) 2-Fluorobiphenyl	15.10	172	1816103	12.48 ug/L	24.96%
53) 2,4,6-Tribromophenol	18.74	330	84112	7.94 ug/L	10.58%
72) Terphenyl-d14	24.32	244	2582350	50.79 ug/L	101.57%
Target Compounds					Qvalue
71) Bis(2-ethylhexyl)phthalate	26.98	149	375228	1.86 ug/L	99

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-23-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2350501

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3824.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 4 dec. Date Extracted: 04/06/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-23-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2350501

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3824.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 4 dec. Date Extracted: 04/06/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	61	J
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenz(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

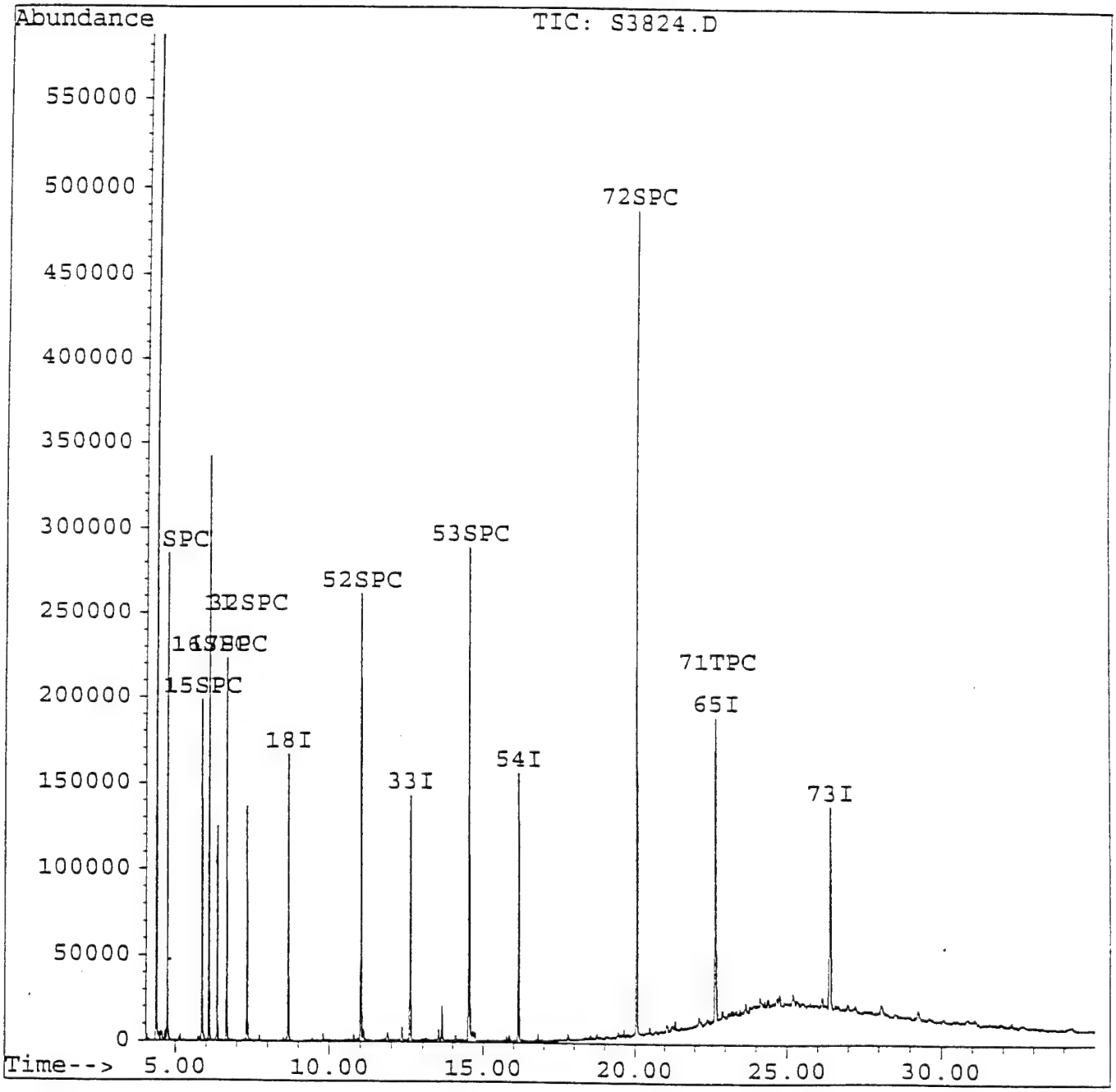
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3824.d
Acq On : 12 Apr 95 18:06 pm
Sample : 2350501,1-23-1,
Misc : 1,,4,06-APR-95,30,1,T8270, SOIL
Quant Time: Apr 12 18:41 1995

Vial: 44
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Single Level Calibration



000048

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3824.d
Acq On : 12 Apr 95 18:06 pm
Sample : 2350501,1-23-1,
Misc : 1,,4,06-APR-95,30,1,T8270, SOIL
Quant Time: Apr 12 18:41 1995

Vial: 44
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\s3818.d

Internal Standards	R.T.	Scan	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.38	136	29901	20.00	0.01
18) Naphthalene-D8	8.66	268	97176	20.00	0.00
33) Acenaphthene-d10	12.61	496	56465	20.00	0.01
54) Phenanthrene-D10	16.15	700	101717	20.00	0.00
65) Chrysene-D12	22.70	1078	110571	20.00	0.00
73) Perylene-D12	26.40	1292	116072	20.00	0.01

System Monitoring Compounds					%Recovery
14) 2-Fluorophenol	4.75	42	69288	62.87 ug/L	83.82%
15) Phenol-d5	5.86	106	74821	45.94 ug/L	61.26%
16) 2-Chlorophenol-d4	6.10	120	99347	50.21 ug/L	66.95%
17) 1,2-Dichlorobenzene-d4	6.67	153	57795	23.09 ug/L	46.17%
32) Nitrobenzene-d5	7.33	191	63840	27.94 ug/L	55.89%
52) 2-Fluorobiphenyl	11.00	403	143349	30.98 ug/L	61.97%
53) 2,4,6-Tribromophenol	14.54	607	65963	48.64 ug/L	64.85%
72) Terphenyl-d14	20.08	927	242826	49.24 ug/L	98.49%

Target Compounds					Qvalue
71) Bis(2-ethylhexyl)phthalate	22.73	1080	11183	1.77 ug/L	85

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-22-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2350502

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3825.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 5 dec. Date Extracted: 04/06/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	350	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-22-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2350502

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3825.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 5 dec. Date Extracted: 04/06/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	50	J
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenz(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

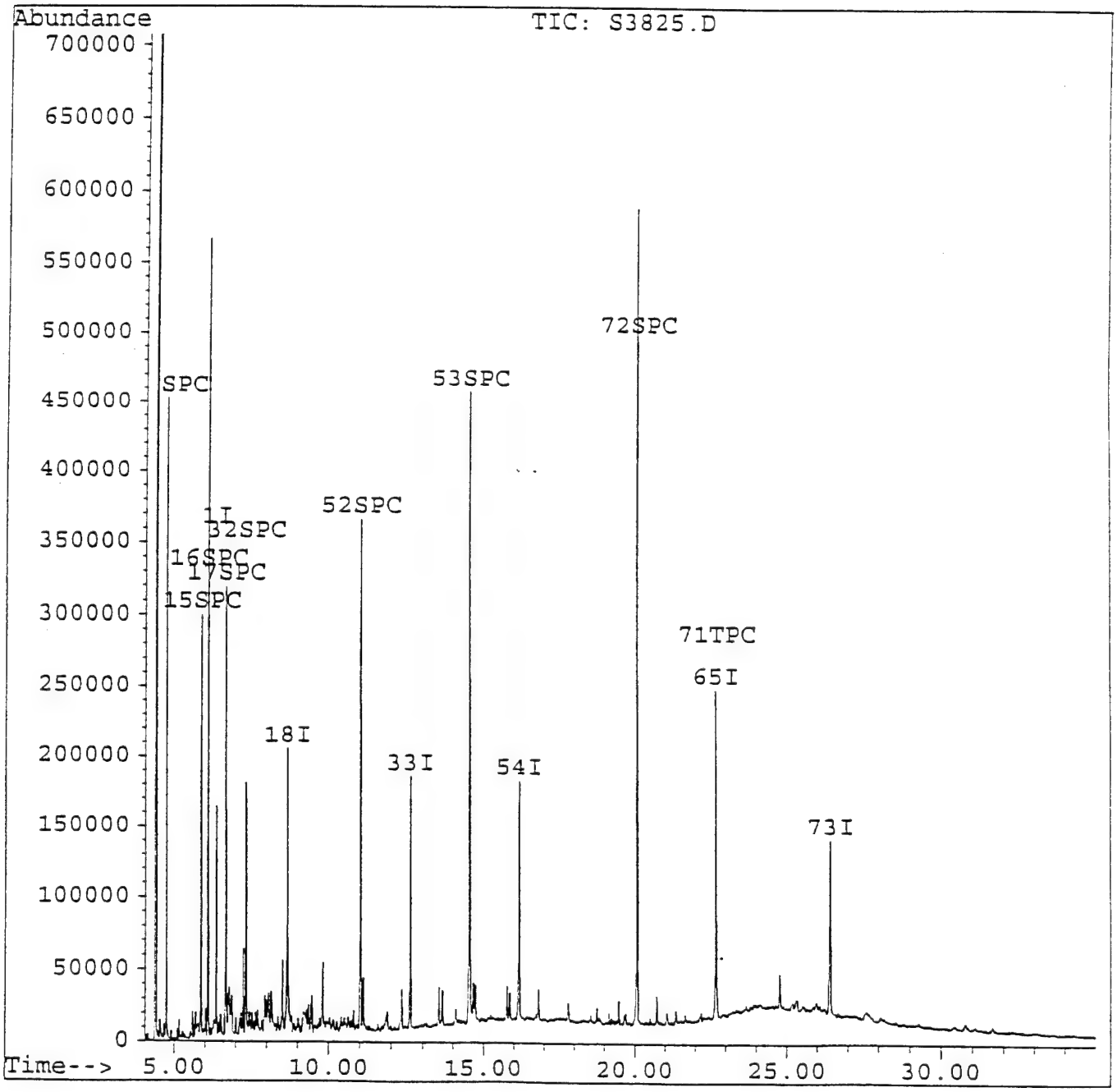
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3825.d
Acq On : 12 Apr 95 18:48 pm
Sample : 2350502,1-22-1,
Misc : 1,,5,06-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 12:05 1995

Vial: 45
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Single Level Calibration



000052

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3825.d
Acq On : 12 Apr 95 18:48 pm
Sample : 2350502,1-22-1,
Misc : 1,,5,06-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 12:05 1995

Vial: 45
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\s3818.d

Internal Standards	R.T.	Scan	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.38	136	36171	20.00		0.01
18) Naphthalene-D8	8.66	268	107617	20.00		0.00
33) Acenaphthene-d10	12.61	496	64055	20.00		0.01
54) Phenanthrene-D10	16.17	701	114234	20.00		0.01
65) Chrysene-D12	22.70	1078	123933	20.00		0.00
73) Perylene-D12	26.42	1293	125832	20.00		0.03

System Monitoring Compounds						%Recovery
14) 2-Fluorophenol	4.75	42	110174	82.6[illegible]	ug/L	110.18%
15) Phenol-d5	5.88	107	122888	62.38	ug/L	83.17%
16) 2-Chlorophenol-d4	6.10	120	165952	69.33	ug/L	92.44%
17) 1,2-Dichlorobenzene-d4	6.67	153	88544	29.24	ug/L	58.48%
32) Nitrobenzene-d5	7.33	191	93372	36.90	ug/L	73.81%
52) 2-Fluorobiphenyl	11.02	404	203066	38.69	ug/L	77.38%
53) 2,4,6-Tribromophenol	14.54	607	107641	69.96	ug/L	93.29%
72) Terphenyl-d14	20.10	928	370897	67.11	ug/L	134.21%

Target Compounds						Qvalue
71) Bis(2-ethylhexyl)phthalate	22.73	1080	10197	1.44	ug/L	88

John [illegible] 4/13/95

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-22-1D

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2350503

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3826.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 6 dec. Date Extracted: 04/06/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1400	U
111-44-4	bis(2-Chloroethyl)Ether	1400	U
95-57-8	2-Chlorophenol	1400	U
541-73-1	1,3-Dichlorobenzene	1400	U
106-46-7	1,4-Dichlorobenzene	1400	U
95-50-1	1,2-Dichlorobenzene	1400	U
95-48-7	2-Methylphenol	1400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1400	U
106-44-5	4-Methylphenol	1400	U
621-64-7	N-Nitroso-di-n-propylamine	1400	U
67-72-1	Hexachloroethane	1400	U
98-95-3	Nitrobenzene	1400	U
78-59-1	Isophorone	1400	U
88-75-5	2-Nitrophenol	1400	U
105-67-9	2,4-Dimethylphenol	1400	U
120-83-2	2,4-Dichlorophenol	1400	U
120-82-1	1,2,4-Trichlorobenzene	1400	U
91-20-3	Naphthalene	1400	U
106-47-8	4-Chloroaniline	1400	U
87-68-3	Hexachlorobutadiene	1400	U
111-91-1	bis(2-Chloroethoxy)methane	1400	U
59-50-7	4-Chloro-3-Methylphenol	1400	U
91-57-6	2-Methylnaphthalene	1400	U
77-47-4	Hexachlorocyclopentadiene	1400	U
88-06-2	2,4,6-Trichlorophenol	1400	U
95-95-4	2,4,5-Trichlorophenol	7100	U
91-58-7	2-Chloronaphthalene	1400	U
88-74-4	2-Nitroaniline	7100	U
131-11-3	Dimethylphthalate	1400	U
208-96-8	Acenaphthylene	1400	U
606-20-2	2,6-Dinitrotoluene	1400	U
99-09-2	3-Nitroaniline	7100	U
83-32-9	Acenaphthene	1400	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-22-1D

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2350503

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3826.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 6 dec. Date Extracted: 04/06/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	7100	U
100-02-7	4-Nitrophenol	7100	U
132-64-9	Dibenzofuran	1400	U
121-14-2	2,4-Dinitrotoluene	1400	U
84-66-2	Diethylphthalate	1400	U
7005-72-3	4-Chlorophenyl-phenylether	1400	U
86-73-7	Fluorene	1400	U
100-01-6	4-Nitroaniline	7100	U
534-52-1	4,6-Dinitro-2-methylphenol	7100	U
86-30-6	N-Nitrosodiphenylamine (1)	1400	U
101-55-3	4-Bromophenyl-phenylether	1400	U
118-74-1	Hexachlorobenzene	1400	U
87-86-5	Pentachlorophenol	7100	U
85-01-8	Phenanthrene	1400	U
120-12-7	Anthracene	1400	U
86-74-8	Carbazole	1400	U
84-74-2	Di-n-butylphthalate	1400	U
206-44-0	Fluoranthene	270	J
129-00-0	Pyrene	180	J
85-68-7	Butylbenzylphthalate	1400	U
91-94-1	3,3'-Dichlorobenzidine	2800	U
56-55-3	Benzo(a)anthracene	1400	U
218-01-9	Chrysene	1400	U
117-81-7	bis(2-Ethylhexyl)phthalate	1400	U
117-84-0	Di-n-octylphthalate	1400	U
205-99-2	Benzo(b)fluoranthene	1400	U
207-08-9	Benzo(k)fluoranthene	1400	U
50-32-8	Benzo(a)pyrene	1400	U
193-39-5	Indeno(1,2,3-cd)pyrene	1400	U
53-70-3	Dibenz(a,h)anthracene	1400	U
191-24-2	Benzo(g,h,i)perylene	1400	U

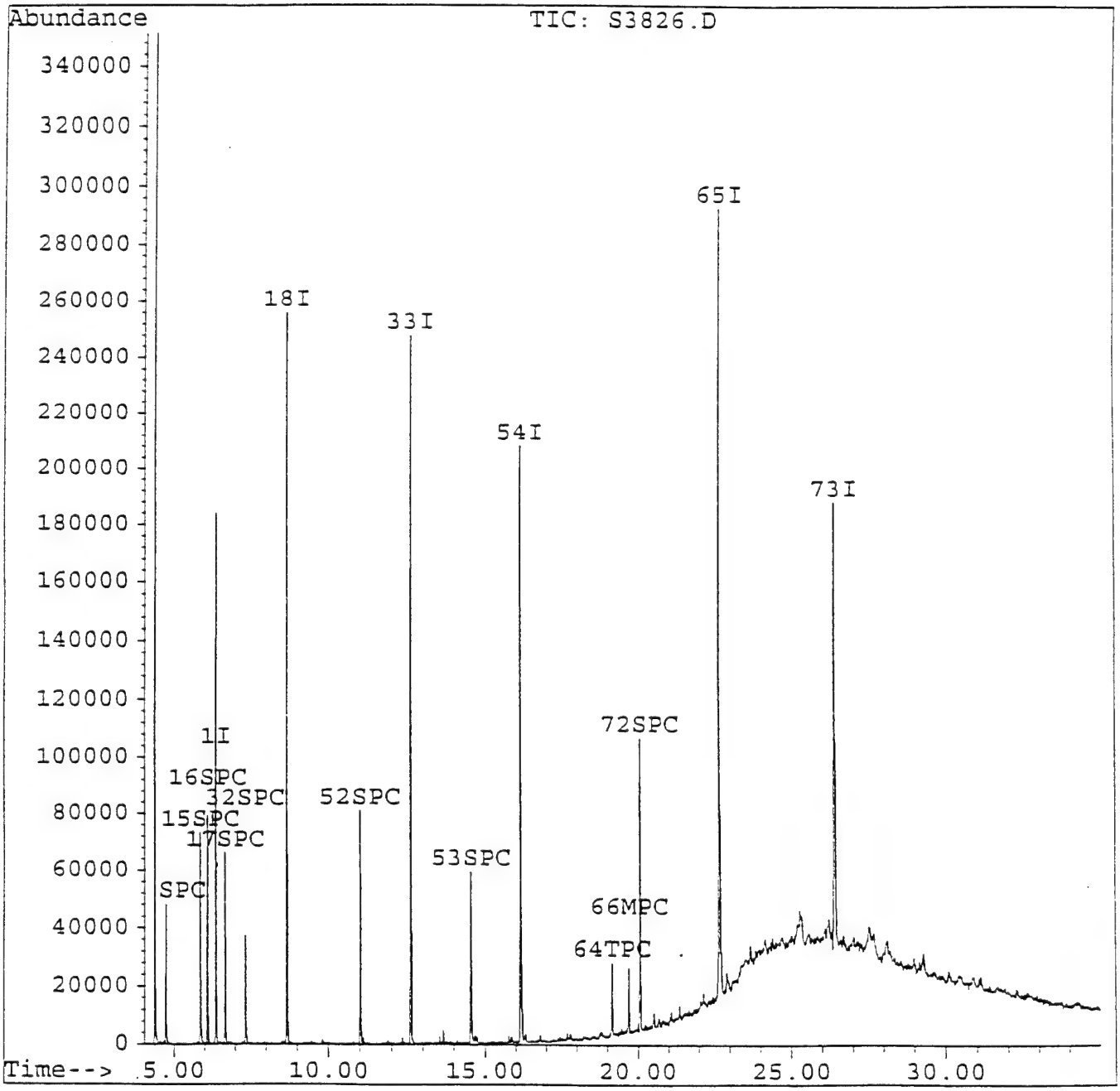
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3826.d
Acq On : 12 Apr 95 19:31 pm
Sample : 2350503,1-22-1D,
Misc : 4,,6,06-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 12:03 1995

Vial: 46
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Single Level Calibration



000056

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3826.d
Acq On : 12 Apr 95 19:31 pm
Sample : 2350503,1-22-1D,
Misc : 4,,6,06-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 12:03 1995

Vial: 46
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\s3818.d

Internal Standards	R.T.	Scan	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.38	136	44191	20.00		0.02
18) Naphthalene-D8	8.67	268	146203	20.00		0.00
33) Acenaphthene-d10	12.62	496	89283	20.00		0.02
54) Phenanthrene-D10	16.17	701	149464	20.00		0.02
65) Chrysene-D12	22.70	1078	152252	20.00		0.00
73) Perylene-D12	26.42	1293	150245	20.00		0.03
System Monitoring Compounds						**%Recovery**
14) 2-Fluorophenol	4.75	42	15264	9.37	ug/L	12.49%
15) Phenol-d5	5.86	106	22880	9.51	ug/L	12.67%
16) 2-Chlorophenol-d4	6.10	120	25602	8.75	ug/L	11.67%
17) 1,2-Dichlorobenzene-d4	6.67	153	19486	5.27	ug/L	10.53%
32) Nitrobenzene-d5	7.33	191	21353	6.21	ug/L	12.42%
52) 2-Fluorobiphenyl	11.01	403	41728	5.70	ug/L	11.41%
53) 2,4,6-Tribromophenol	14.54	607	14276	6.66	ug/L	8.88%
72) Terphenyl-d14	20.08	927	53123	7.82	ug/L	15.65%
Target Compounds						**Qvalue**
64) Fluoranthene	19.15	873	17067	1.89	ug/L	88
66) Pyrene	19.70	905	14323	1.28	ug/L	94

John

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-19-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2350504

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3827.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 5 dec. Date Extracted: 04/06/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1800	U
111-44-4	bis(2-Chloroethyl)Ether	1800	U
95-57-8	2-Chlorophenol	1800	U
541-73-1	1,3-Dichlorobenzene	1800	U
106-46-7	1,4-Dichlorobenzene	1800	U
95-50-1	1,2-Dichlorobenzene	1800	U
95-48-7	2-Methylphenol	1800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1800	U
106-44-5	4-Methylphenol	1800	U
621-64-7	N-Nitroso-di-n-propylamine	1800	U
67-72-1	Hexachloroethane	1800	U
98-95-3	Nitrobenzene	1800	U
78-59-1	Isophorone	1800	U
88-75-5	2-Nitrophenol	1800	U
105-67-9	2,4-Dimethylphenol	1800	U
120-83-2	2,4-Dichlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	1800	U
91-20-3	Naphthalene	1800	U
106-47-8	4-Chloroaniline	1800	U
87-68-3	Hexachlorobutadiene	1800	U
111-91-1	bis(2-Chloroethoxy)methane	1800	U
59-50-7	4-Chloro-3-Methylphenol	1800	U
91-57-6	2-Methylnaphthalene	1800	U
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	1800	U
95-95-4	2,4,5-Trichlorophenol	8800	U
91-58-7	2-Chloronaphthalene	1800	U
88-74-4	2-Nitroaniline	8800	U
131-11-3	Dimethylphthalate	1800	U
208-96-8	Acenaphthylene	1800	U
606-20-2	2,6-Dinitrotoluene	1800	U
99-09-2	3-Nitroaniline	8800	U
83-32-9	Acenaphthene	1800	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-19-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2350504

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3827.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 5 dec. Date Extracted: 04/06/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	8800	U
100-02-7	4-Nitrophenol	8800	U
132-64-9	Dibenzofuran	1800	U
121-14-2	2,4-Dinitrotoluene	1800	U
84-66-2	Diethylphthalate	1800	U
7005-72-3	4-Chlorophenyl-phenylether	1800	U
86-73-7	Fluorene	1800	U
100-01-6	4-Nitroaniline	8800	U
534-52-1	4,6-Dinitro-2-methylphenol	8800	U
86-30-6	N-Nitrosodiphenylamine (1)	1800	U
101-55-3	4-Bromophenyl-phenylether	1800	U
118-74-1	Hexachlorobenzene	1800	U
87-86-5	Pentachlorophenol	8800	U
85-01-8	Phenanthrene	950	J
120-12-7	Anthracene	340	J
86-74-8	Carbazole	290	J
84-74-2	Di-n-butylphthalate	1800	U
206-44-0	Fluoranthene	1100	J
129-00-0	Pyrene	780	J
85-68-7	Butylbenzylphthalate	1800	U
91-94-1	3,3'-Dichlorobenzidine	3500	U
56-55-3	Benzo(a)anthracene	520	J
218-01-9	Chrysene	550	J
117-81-7	bis(2-Ethylhexyl)phthalate	1800	U
117-84-0	Di-n-octylphthalate	1800	U
205-99-2	Benzo(b)fluoranthene	430	J
207-08-9	Benzo(k)fluoranthene	430	J
50-32-8	Benzo(a)pyrene	540	J
193-39-5	Indeno(1,2,3-cd)pyrene	210	J
53-70-3	Dibenz(a,h)anthracene	1800	U
191-24-2	Benzo(g,h,i)perylene	210	J

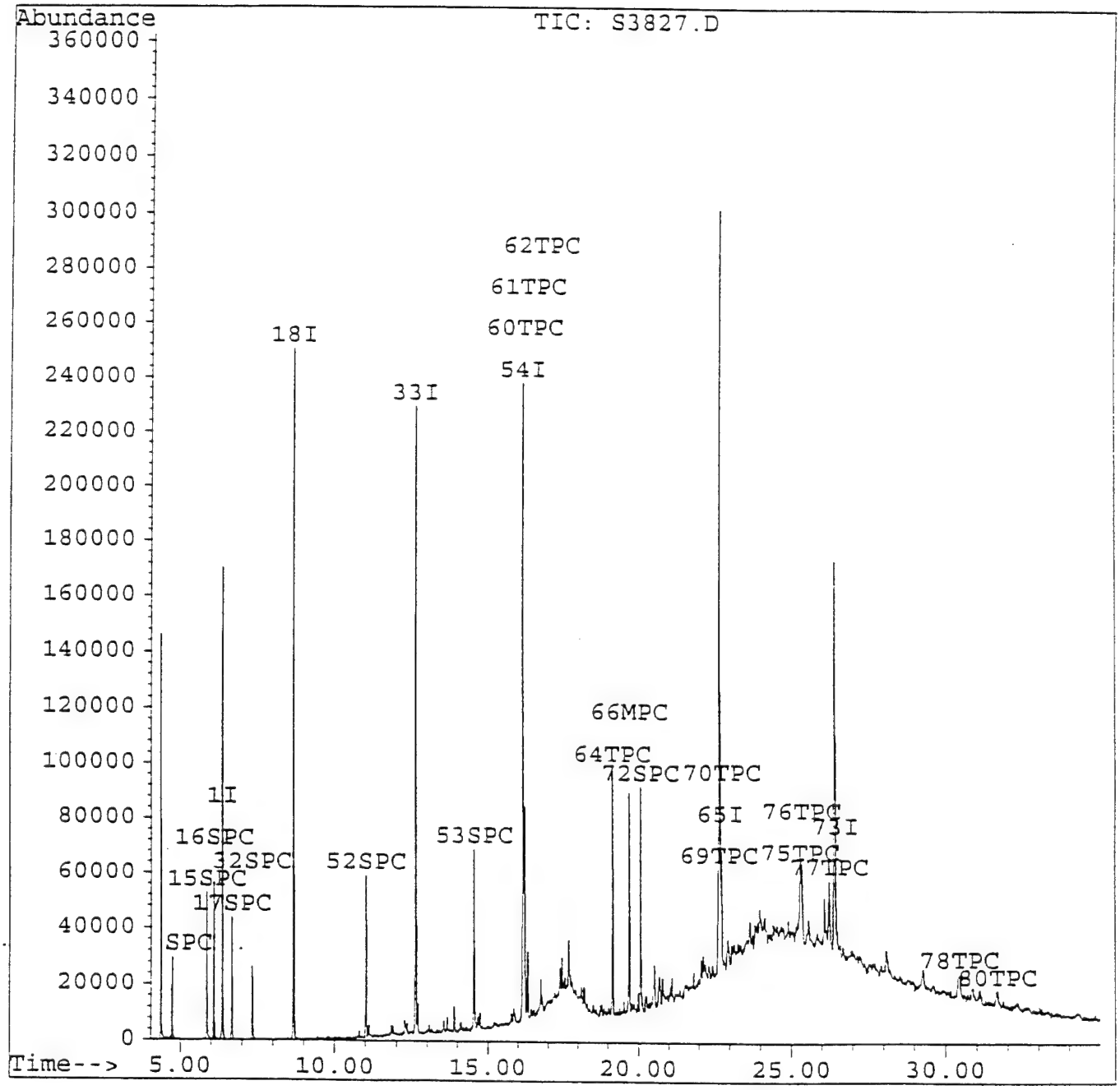
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3827.d
Acq On : 12 Apr 95 20:14 pm
Sample : 2350504,1-19-1,
Misc : 5,,5,06-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 12:13 1995

Vial: 47
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Single Level Calibration



000060

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3827.d
Acq On : 12 Apr 95 20:14 pm
Sample : 2350504,1-19-1,
Misc : 5,,5,06-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 12:13 1995

Vial: 47
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\s3818.d

Internal Standards	R.T.	Scan	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.38	136	42880	20.00		0.02
18) Naphthalene-D8	8.67	268	144724	20.00		0.00
33) Acenaphthene-d10	12.62	496	81386	20.00		0.02
54) Phenanthrene-D10	16.17	701	146875	20.00		0.02
65) Chrysene-D12	22.70	1078	144646	20.00		0.00
73) Perylene-D12	26.43	1293	139838	20.00		0.03

System Monitoring Compounds						%Recovery
14) 2-Fluorophenol	4.75	42	10476	6.63	ug/L	8.84%
15) Phenol-d5	5.86	106	16204	6.94	ug/L	9.25%
16) 2-Chlorophenol-d4	6.10	120	19131	6.74	ug/L	8.99%
17) 1,2-Dichlorobenzene-d4	6.68	153	12204	3.40	ug/L	6.80%
32) Nitrobenzene-d5	7.33	191	14350	4.22	ug/L	8.44%
52) 2-Fluorobiphenyl	11.01	403	28308	4.25	ug/L	8.49%
53) 2,4,6-Tribromophenol	14.54	607	15487	7.92	ug/L	10.56%
72) Terphenyl-d14	20.08	927	37799	5.86	ug/L	11.72%

Target Compounds						Qvalue
60) Phenanthrene	16.22	704	46704	5.44	ug/L	99
61) Anthracene	16.33	710	13427	1.93	ug/L	92
62) Carbazole	16.76	735	6687	1.66	ug/L	95
64) Fluoranthene	19.15	873	57846	6.52	ug/L	92
66) Pyrene	19.70	905	47728	4.48	ug/L	98
69) Benzo(a)anthracene	22.65	1075	25114	2.97	ug/L m	98
70) Chrysene	22.75	1081	24327	3.12	ug/L	94
75) Benzo(b)fluoranthene	25.30	1228	19801	2.46	ug/L	94
76) Benzo(k)fluoranthene	25.35	1231	18066	2.44	ug/L m	94
77) Benzo(a)pyrene	26.23	1282	20946	3.10	ug/L	79
78) Indeno(1,2,3-cd)pyrene	30.44	1525	10677	1.22	ug/L	89
80) Benzo(g,h,i)perylene	31.66	1595	8116	1.21	ug/L #	67

000061

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-19-2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2350505

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3828.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 6 dec. Date Extracted: 04/06/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1800	U
111-44-4	bis(2-Chloroethyl)Ether	1800	U
95-57-8	2-Chlorophenol	1800	U
541-73-1	1,3-Dichlorobenzene	1800	U
106-46-7	1,4-Dichlorobenzene	1800	U
95-50-1	1,2-Dichlorobenzene	1800	U
95-48-7	2-Methylphenol	1800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1800	U
106-44-5	4-Methylphenol	1800	U
621-64-7	N-Nitroso-di-n-propylamine	1800	U
67-72-1	Hexachloroethane	1800	U
98-95-3	Nitrobenzene	1800	U
78-59-1	Isophorone	1800	U
88-75-5	2-Nitrophenol	1800	U
105-67-9	2,4-Dimethylphenol	1800	U
120-83-2	2,4-Dichlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	1800	U
91-20-3	Naphthalene	1800	U
106-47-8	4-Chloroaniline	1800	U
87-68-3	Hexachlorobutadiene	1800	U
111-91-1	bis(2-Chloroethoxy)methane	1800	U
59-50-7	4-Chloro-3-Methylphenol	1800	U
91-57-6	2-Methylnaphthalene	1800	U
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	1800	U
95-95-4	2,4,5-Trichlorophenol	8900	U
91-58-7	2-Chloronaphthalene	1800	U
88-74-4	2-Nitroaniline	8900	U
131-11-3	Dimethylphthalate	1800	U
208-96-8	Acenaphthylene	1800	U
606-20-2	2,6-Dinitrotoluene	1800	U
99-09-2	3-Nitroaniline	8900	U
83-32-9	Acenaphthene	300	J

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-19-2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2350505

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3828.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 6 dec. Date Extracted: 04/06/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	8900	U
100-02-7	4-Nitrophenol	8900	U
132-64-9	Dibenzofuran	1800	U
121-14-2	2,4-Dinitrotoluene	1800	U
84-66-2	Diethylphthalate	1800	U
7005-72-3	4-Chlorophenyl-phenylether	1800	U
86-73-7	Fluorene	220	J
100-01-6	4-Nitroaniline	8900	U
534-52-1	4,6-Dinitro-2-methylphenol	8900	U
86-30-6	N-Nitrosodiphenylamine (1)	1800	U
101-55-3	4-Bromophenyl-phenylether	1800	U
118-74-1	Hexachlorobenzene	1800	U
87-86-5	Pentachlorophenol	8900	U
85-01-8	Phenanthrene	2800	
120-12-7	Anthracene	880	J
86-74-8	Carbazole	490	J
84-74-2	Di-n-butylphthalate	1800	U
206-44-0	Fluoranthene	6600	
129-00-0	Pyrene	4800	
85-68-7	Butylbenzylphthalate	1800	U
91-94-1	3,3'-Dichlorobenzidine	3500	U
56-55-3	Benzo(a)anthracene	3800	
218-01-9	Chrysene	4000	
117-81-7	bis(2-Ethylhexyl)phthalate	1800	U
117-84-0	Di-n-octylphthalate	1800	U
205-99-2	Benzo(b)fluoranthene	4200	
207-08-9	Benzo(k)fluoranthene	3000	
50-32-8	Benzo(a)pyrene	3900	
193-39-5	Indeno(1,2,3-cd)pyrene	1100	J
53-70-3	Dibenz(a,h)anthracene	1800	U
191-24-2	Benzo(g,h,i)perylene	1000	J

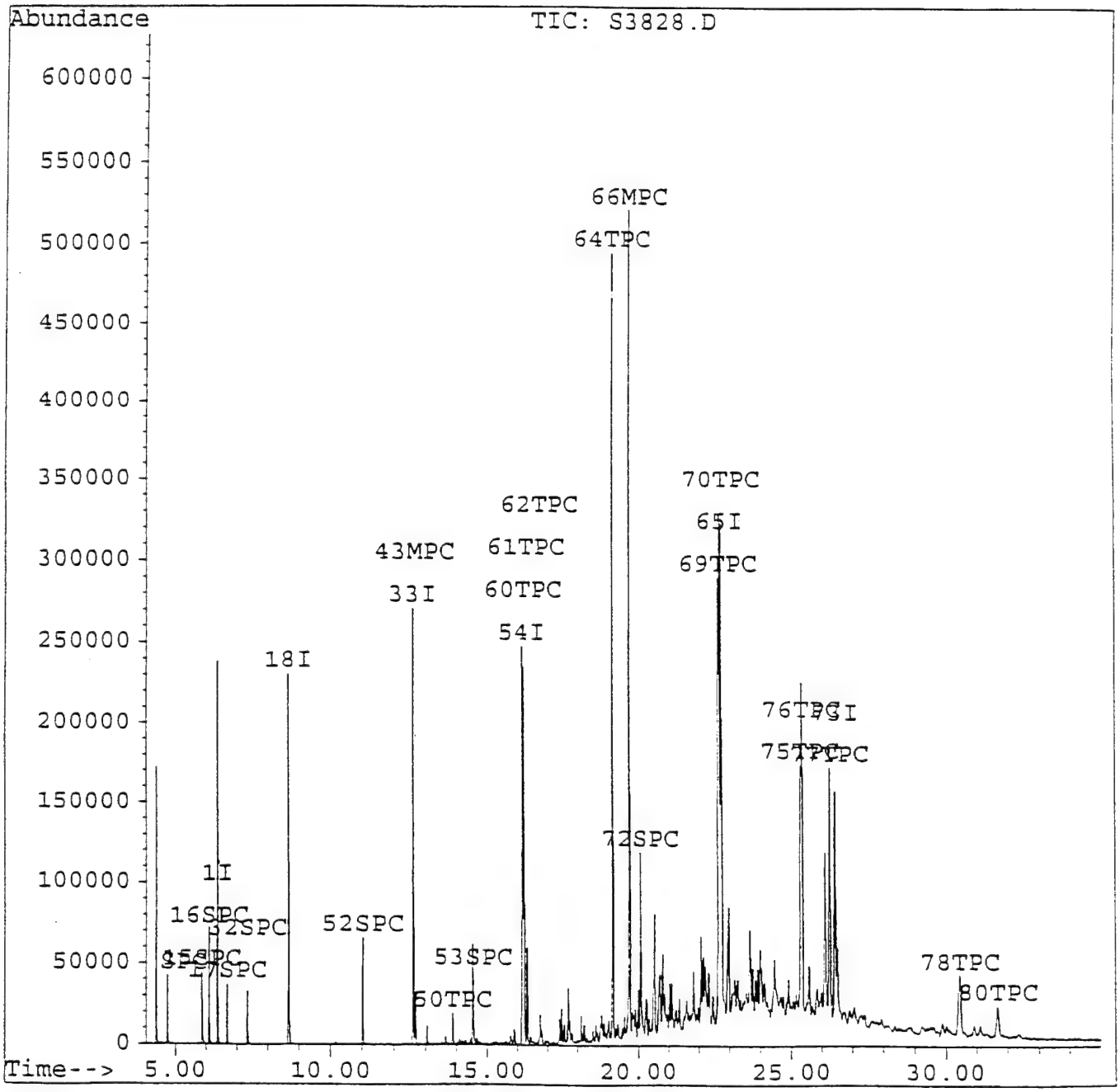
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3828.d
Acq On : 12 Apr 95 20:57 pm
Sample : 2350505,1-19-2,
Misc : 5,,6,06-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 12:18 1995

Vial: 48
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Single Level Calibration



000064

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3828.d
Acq On : 12 Apr 95 20:57 pm
Sample : 2350505,1-19-2,
Misc : 5,,6,06-APR-95,30,1,T8270, SOIL
Quant Time: Apr 13 12:18 1995

Vial: 48
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\s3818.d

Internal Standards	R.T.	Scan	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.38	136	44874	20.00		0.01
18) Naphthalene-D8	8.66	268	141990	20.00		0.00
33) Acenaphthene-d10	12.61	496	87951	20.00		0.01
54) Phenanthrene-D10	16.17	701	142072	20.00		0.01
65) Chrysene-D12	22.71	1079	162855	20.00		0.01
73) Perylene-D12	26.44	1294	142445	20.00		0.05
System Monitoring Compounds						%Recovery
14) 2-Fluorophenol	4.75	42	10823	6.54	ug/L	8.72%
15) Phenol-d5	5.86	106	16999	6.96	ug/L	9.27%
16) 2-Chlorophenol-d4	6.10	120	19484	6.56	ug/L	8.75%
17) 1,2-Dichlorobenzene-d4	6.69	154	13036	3.47	ug/L	6.94%
32) Nitrobenzene-d5	7.35	192	16136	4.83	ug/L	9.67%
52) 2-Fluorobiphenyl	11.02	404	33971	4.71	ug/L	9.43%
53) 2,4,6-Tribromophenol	14.54	607	15919	7.54	ug/L	10.05%
72) Terphenyl-d14	20.08	927	45267	6.23	ug/L	12.47%
Target Compounds						Qvalue
43) Acenaphthene	12.68	500	9409	1.68	ug/L	97
50) Fluorene	13.88	569	9448	1.24	ug/L #	93
60) Phenanthrene	16.22	704	132394	15.93	ug/L	98
61) Anthracene	16.32	710	33436	4.96	ug/L	94
62) Carbazole	16.75	735	10742	2.75	ug/L	95
64) Fluoranthene	19.16	874	318845	37.16	ug/L	97
66) Pyrene	19.72	906	328798	27.39	ug/L	96
69) Benzo(a)anthracene	22.66	1076	203991	21.39	ug/L	98
70) Chrysene	22.77	1082	197983	22.52	ug/L	98
75) Benzo(b)fluoranthene	25.31	1229	192029	23.43	ug/L m	97
76) Benzo(k)fluoranthene	25.37	1232	127655	16.91	ug/L m	97
77) Benzo(a)pyrene	26.27	1284	152295	22.15	ug/L	78
78) Indeno(1,2,3-cd)pyrene	30.46	1526	53610	6.02	ug/L	97
80) Benzo(g,h,i)perylene	31.67	1596	39744	5.83	ug/L m	80

000065

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-24-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2350506

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3829.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 4 dec. Date Extracted: 04/06/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-24-1

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: . SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: 2350506

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3829.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 4 dec. Date Extracted: 04/06/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	63	J
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenz(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

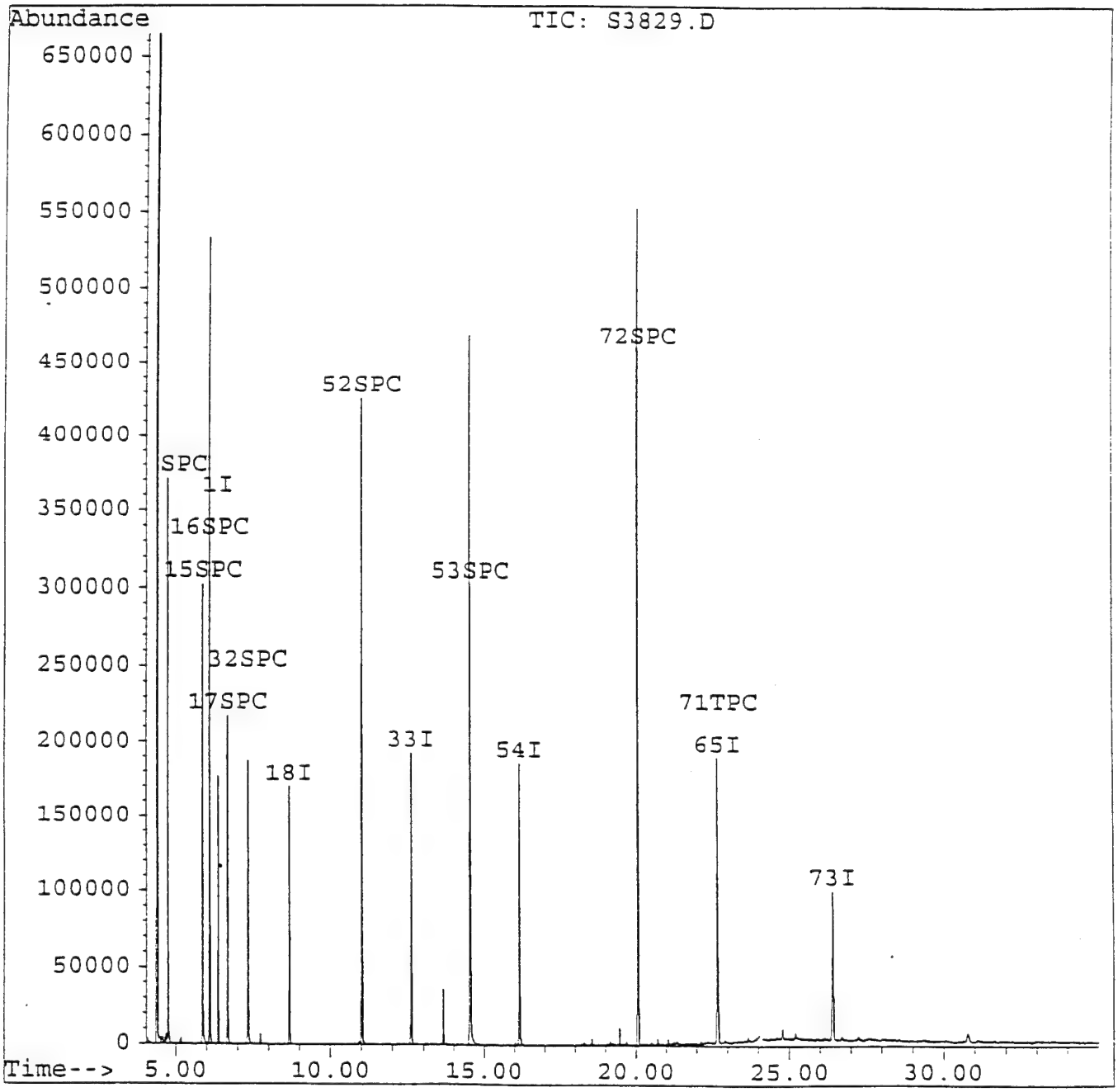
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3829.d
Acq On : 12 Apr 95 21:40 pm
Sample : 2350506,1-24-2,1
Misc : 1,,4,06-APR-95,30,1,T8270, SOIL
Quant Time: Apr 12 22:15 1995

Vial: 49
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Single Level Calibration



000068

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3829.d
Acq On : 12 Apr 95 21:40 pm
Sample : 2350506,1-24-2,1
Misc : 1,,4,06-APR-95,30,1,T8270, SOIL
Quant Time: Apr 12 22:15 1995

Vial: 49
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\s3818.d

Internal Standards	R.T.	Scan	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.38	136	32418	20.00		0.01
18) Naphthalene-D8	8.66	268	103176	20.00		0.00
33) Acenaphthene-d10	12.61	496	68963	20.00		0.01
54) Phenanthrene-D10	16.17	701	119565	20.00		0.01
65) Chrysene-D12	22.70	1078	105601	20.00		0.00
73) Perylene-D12	26.40	1292	103424	20.00		0.01
System Monitoring Compounds						%Recovery
14) 2-Fluorophenol	4.75	42	88996	74.48	ug/L	99.30%
15) Phenol-d5	5.88	107	111546	63.18	ug/L	84.23%
16) 2-Chlorophenol-d4	6.10	120	148697	69.32	ug/L	92.42%
17) 1,2-Dichlorobenzene-d4	6.69	154	81043	29.86	ug/L	59.72%
32) Nitrobenzene-d5	7.35	192	85631	35.30	ug/L	70.60%
52) 2-Fluorobiphenyl	11.02	404	218116	38.60	ug/L	77.20%
53) 2,4,6-Tribromophenol	14.56	608	117178	70.74	ug/L	94.32%
72) Terphenyl-d14	20.10	928	358155	76.05	ug/L	152.10%
Target Compounds						Qvalue
71) Bis(2-ethylhexyl)phthalate	22.73	1080	11045	1.83	ug/L	87

000069

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQPBK2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 S`S No.: SDG No.: WOR1A

Matrix: (soil/water) WATER Lab Sample ID: 2350507

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3831.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 0 dec. Date Extracted:04/07/95

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQPBK2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) WATER Lab Sample ID: 2350507

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3831.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 0 dec. Date Extracted: 04/07/95

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

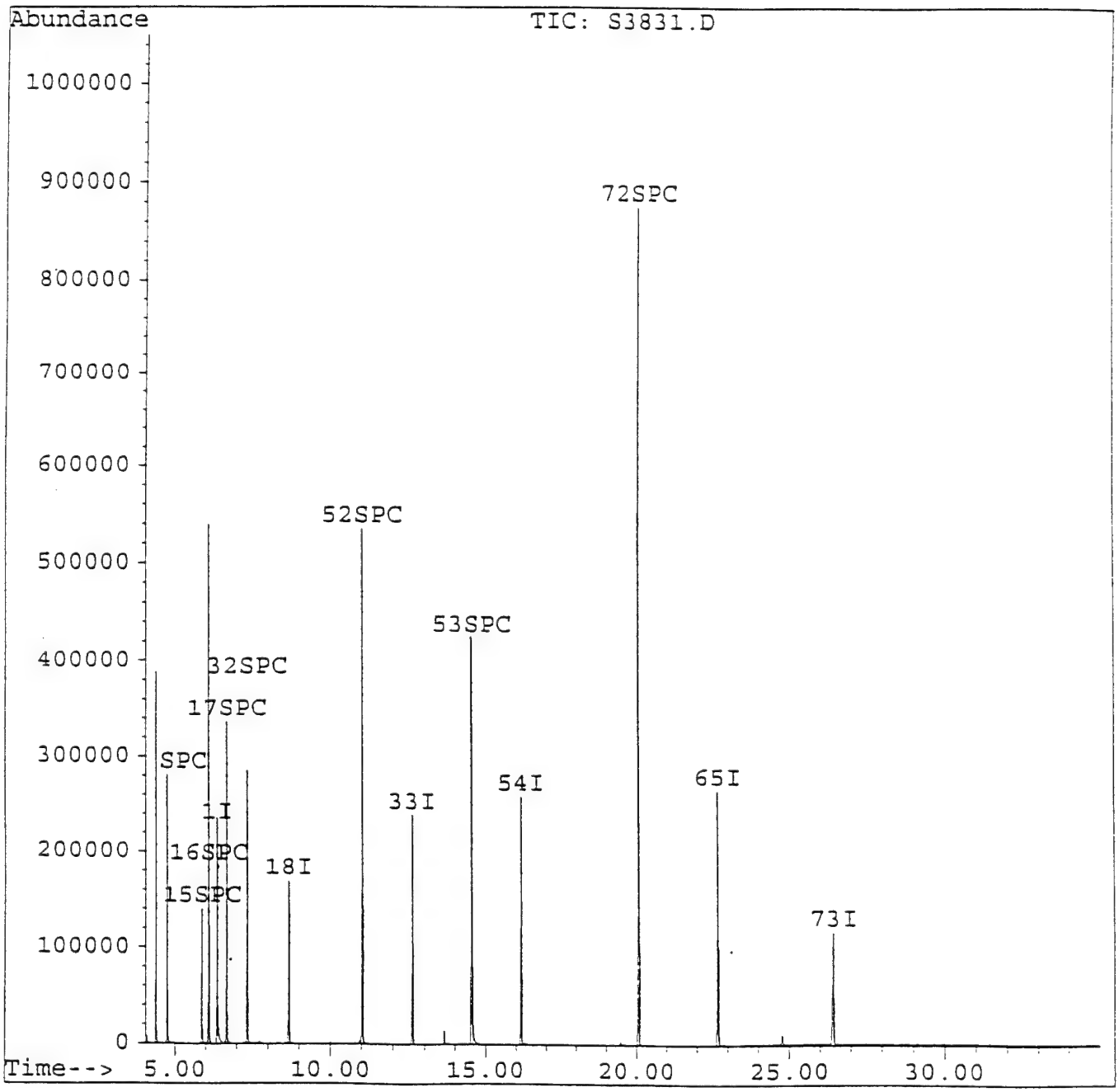
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3831.d
Acq On : 12 Apr 95 23:06 pm
Sample : 2350507,EQPBK2,
Misc : 1,,,07-APR-95,1000,1,T8270, WATER
Quant Time: Apr 12 23:41 1995

Vial: 51
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Single Level Calibration



000072

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3831.d
Acq On : 12 Apr 95 23:06 pm
Sample : 2350507,EQPBK2,
Misc : 1,,,07-APR-95,1000,1,T8270, WATER
Quant Time: Apr 12 23:41 1995

Vial: 51
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\s3818.d

Internal Standards	R.T.	Scan	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.38	136	39636	20.00		0.01
18) Naphthalene-D8	8.66	268	120212	20.00		0.00
33) Acenaphthene-d10	12.61	496	82523	20.00		0.01
54) Phenanthrene-D10	16.17	701	151789	20.00		0.01
65) Chrysene-D12	22.70	1078	155721	20.00		0.00
73) Perylene-D12	26.42	1293	133271	20.00		0.03

System Monitoring Compounds						%Recovery
14) 2-Fluorophenol	4.75	42	65514	44.84	ug/L	59.79%
15) Phenol-d5	5.88	107	47516	22.01	ug/L	29.35%
16) 2-Chlorophenol-d4	6.10	120	148551	56.64	ug/L	75.52%
17) 1,2-Dichlorobenzene-d4	6.69	154	95777	28.86	ug/L	57.72%
32) Nitrobenzene-d5	7.35	192	109498	38.74	ug/L	77.49%
52) 2-Fluorobiphenyl	11.02	404	244673	36.19	ug/L	72.37%
53) 2,4,6-Tribromophenol	14.55	608	125162	63.15	ug/L	84.19%
72) Terphenyl-d14	20.10	928	509833	73.41	ug/L	146.83%

Target Compounds	Qvalue

000073

John Off 4/13/95

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FLDBK2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) WATER Lab Sample ID: 2350508

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3832.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 0 dec. Date Extracted: 04/07/95

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FLDBK2

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) WATER Lab Sample ID: 2350508

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3832.D

Level: (low/med) LOW Date Received: 04/06/95

% Moisture: not dec. 0 dec. Date Extracted: 04/07/95

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

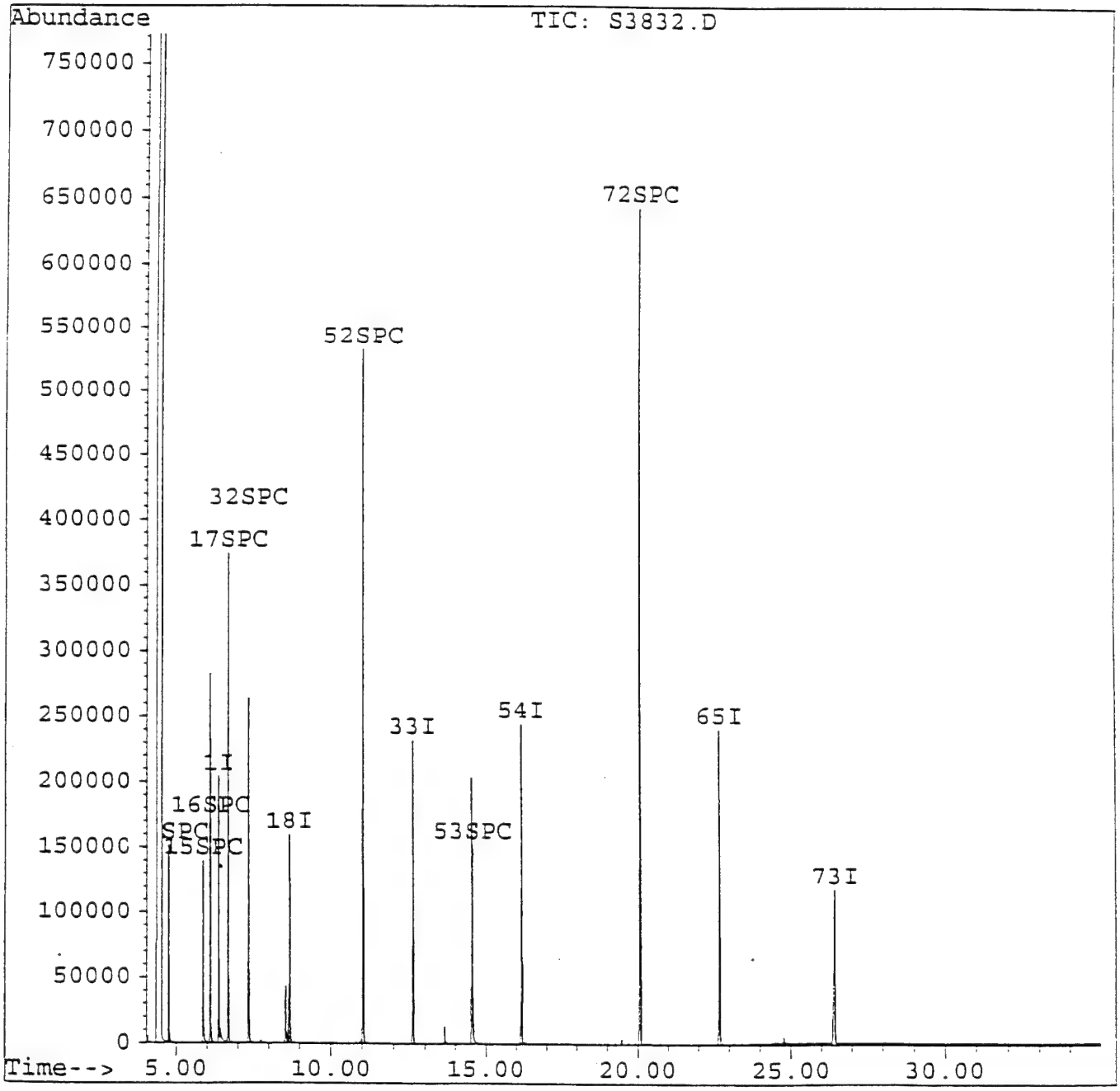
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3832.d
Acq On : 12 Apr 95 23:49 pm
Sample : 2350508,FLDBK2,
Misc : 1,,,07-APR-95,1000,1,T8270, WATER
Quant Time: Apr 13 0:24 1995

Vial: 52
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Single Level Calibration



000076

Quantitation Report

Data File : c:\hpchem\1\data\0412\s3832.d
Acq On : 12 Apr 95 23:49 pm
Sample : 2350508,FLDBK2,
Misc : 1,,,07-APR-95,1000,1,T8270, WATER
Quant Time: Apr 13 0:24 1995

Vial: 52
Operator: jr
Inst : HPS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270S.M
Title : 390/ASP/8270
Last Update : Wed Apr 12 14:28:15 1995
Response via : Continuing Cal File: c:\hpchem\1\data\0412\s3818.d

Internal Standards	R.T.	Scan	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.38	136	34077	20.00	0.02
18) Naphthalene-D8	8.67	268	110705	20.00	0.00
33) Acenaphthene-d10	12.62	496	77319	20.00	0.02
54) Phenanthrene-D10	16.17	701	140540	20.00	0.02
65) Chrysene-D12	22.70	1078	141692	20.00	0.00
73) Perylene-D12	26.42	1293	132932	20.00	0.03

System Monitoring Compounds					%Recovery
14) 2-Fluorophenol	4.77	43	38985	31.04 ug/L	41.38%
15) Phenol-d5	5.88	107	40591	21.87 ug/L	29.16%
16) 2-Chlorophenol-d4	6.12	121	107578	47.71 ug/L	63.61%
17) 1,2-Dichlorobenzene-d4	6.69	154	94073	32.97 ug/L	65.95%
32) Nitrobenzene-d5	7.35	192	98686	37.92 ug/L	75.83%
52) 2-Fluorobiphenyl	11.02	404	243559	38.45 ug/L	76.89%
53) 2,4,6-Tribromophenol	14.56	608	55388	29.82 ug/L	39.77%
72) Terphenyl-d14	20.10	928	412277	65.24 ug/L	130.49%

Target Compounds Qvalue

000077

Tom - 4/3/95

(#) = qualifier out of range (m) = manual integration

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK47

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) WATER Lab Sample ID: SWB0405A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R3643.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/06/95

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK47

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) WATER Lab Sample ID: SWB0405A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R3643.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/06/95

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK54

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: WB0405B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3732.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	330	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK54

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: WB0405B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: R3732.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 dec. Date Extracted: 04/05/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	670	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK91

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: SB0406A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3823.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 dec. Date Extracted: 04/06/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	330	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK91

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) SOIL Lab Sample ID: SB0406A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3823.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 dec. Date Extracted: 04/06/95

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/12/95

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	670	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK92

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) WATER Lab Sample ID: WB0407A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3843.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 dec. Date Extracted:04/07/95

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK92

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix: (soil/water) WATER Lab Sample ID: WB0407A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3843.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 dec. Date Extracted: 04/07/95

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 04/13/95

GPC Cleanup: (Y/N) N pH: 5.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK47	72	68	101	67	71	73	70	62	0
02	FLDBK1	50	40*	138	14	23	48	42	28	1
03	EQPBK1	37	25*	102	6*	6*	10	13*	18	4
04	EQPBK2	77	72	147*	29	60	84	76	58	1
05	FLDBK2	76	77	130	29	41	40	64	66	0
06	SBLK92	63	65	101	64	70	63	80	58	0
07										
08										
09										
10										
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21										
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24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10- 94)	
S5 (2FP)	= 2-Fluorophenol	(21-100)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK91	45	46	89	50	61	49	53	39	0
02	1-23-1	56	62	98	61	84	65	67	46	0
03	1-22-1	74	77	134	83	110	93	92	58	0
04	1-22-1D	50D	46D	62D	51D	50D	36D	47D	42D	0
05	1-19-1	42D	42D	58D	46D	44D	53D	45D	34D	0
06	1-19-2	48D	47D	62D	46D	44D	50D	44D	35D	0
07	SBLK54	76	72	84	63	54	64	63	64	0
08	1-24-1	71	77	152*	84	99	94	92	60	1
09	1-16-1	60	62	72	52	49	51	50	55	0
10	1-16-D	70	70	82	59	55	61	58	62	0
11	1-16-2	63D	82D	121D	55D	54D	46D	63D	59D	0
12	1-17-2	68	71	86	58	52	56	61	62	0
13	1-18-1	37D	87D	149D	48D	33D	81D	49D	34D	0
14	1-18-2	7D	18D	25D	4D	8D	10D	12D	14D	0
15	1-20-1	47	55	76	46	42	57	47	44	0
16	1-21-1	62	66	79	54	48	45	52	57	0
17	1-17-1	58	61	73	51	47	50	50	52	0
18	1-17-1MS	70	71	83	56	60	56	57	68	0
19	1-17-1MSD	72D	105D	142D	72D	69D	72D	83D	71D	0
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV-2

SW846 METHOD 8270A

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Matrix Spike - EPA Sample No.: 1-17-1 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	2600	0	1600	62	26- 90
2-Chlorophenol	2600	0	1400	54	25-102
1,4-Dichlorobenzene	1700	0	1100	65	28-104
N-Nitroso-di-n-prop.(1)	1700	0	1300	76	41-126
1,2,4-Trichlorobenzene	1700	0	1200	70	38-107
4-Chloro-3-Methylphenol	2600	0	1800	69	26-103
Acenaphthene	1700	0	1200	70	31-137
4-Nitrophenol	2600	0	1800	69	11-114
2,4-Dinitrotoluene	1700	0	1200	70	28- 89
Pentachlorophenol	2600	0	330	13*	17-109
Pyrene	1700	0	1400	82	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	2600	2000	77	22	35	26- 90
2-Chlorophenol	2600	2100	81	40	50	25-102
1,4-Dichlorobenzene	1700	1200	70	7	27	28-104
N-Nitroso-di-n-prop.(1)	1700	1400	82	8	38	41-126
1,2,4-Trichlorobenzene	1700	1500	88	23	23	38-107
4-Chloro-3-Methylphenol	2600	2000	77	11	33	26-103
Acenaphthene	1700	3000	176*	86*	19	31-137
4-Nitrophenol	2600	2200	85	21	50	11-114
2,4-Dinitrotoluene	1700	1300	76	8	47	28- 89
Pentachlorophenol	2600	1500	58	127*	47	17-109
Pyrene	1700	63000	****	191*	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 3 out of 11 outside limits
Spike Recovery: 3 out of 22 outside limits

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Lab File ID: R3635.D DFTPP Injection Date: 04/06/95

Instrument ID: HPR DFTPP Injection Time: 1104

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	53.5
70	Less than 2.0% of mass 69	0.1 (0.1)1
127	40.0 - 60.0% of mass 198	56.3
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	13.9
365	Greater than 1.00% of mass 198	2.54
441	Present, but less than mass 443	6.9
442	Greater than 40.0% of mass 198	46.5
443	17.0 - 23.0% of mass 442	8.9 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	SSTD020	R3637.D	04/06/95	1214
02	SSTD050	SSTD050	R3638.D	04/06/95	1304
03	SSTD080	SSTD080	R3639.D	04/06/95	1353
04	SSTD120	SSTD120	R3640.D	04/06/95	1443
05	SSTD160	SSTD160	R3641.D	04/06/95	1534
06	SBLK47	SWB0405A	R3643.D	04/06/95	1717
07	FLDBK1	2349012	R3647.D	04/06/95	2038
08	EQPBK1	2349013	R3648.D	04/06/95	2128
09					
10					
11					
12					
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Lab File ID: R3720.D DFTPP Injection Date: 04/12/95

Instrument ID: HPR DFTPP Injection Time: 1133

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	42.6
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	46.7
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	17.3
365	Greater than 1.00% of mass 198	1.68
441	Present, but less than mass 443	6.0
442	Greater than 40.0% of mass 198	40.5
443	17.0 - 23.0% of mass 442	7.8 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	SSTD020	R3721.D	04/12/95	1213
02	SSTD050	SSTD050	R3722.D	04/12/95	1300
03	SSTD080	SSTD080	R3723.D	04/12/95	1347
04	SSTD120	SSTD120	R3724.D	04/12/95	1434
05	SSTD160	SSTD160	R3725.D	04/12/95	1522
06	SBLK54	WB0405B	R3732.D	04/12/95	2129
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Lab File ID: R3736.D DFTPP Injection Date: 04/13/95

Instrument ID: HPR DFTPP Injection Time: 0034

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	30.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	37.6
70	Less than 2.0% of mass 69	0.2 (0.7)1
127	40.0 - 60.0% of mass 198	43.9
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	17.9
365	Greater than 1.00% of mass 198	1.73
441	Present, but less than mass 443	6.0
442	Greater than 40.0% of mass 198	40.3
443	17.0 - 23.0% of mass 442	7.9 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	R3737.D	04/13/95	0049
02	1-16-1	2349001	R3738.D	04/13/95	0136
03	1-16-D	2349002	R3739.D	04/13/95	0224
04	1-16-2	2349003	R3740.D	04/13/95	0311
05	1-17-2	2349007	R3741.D	04/13/95	0359
06	1-18-1	2349008	R3742.D	04/13/95	0446
07	1-18-2	2349009	R3743.D	04/13/95	0533
08	1-20-1	2349010	R3744.D	04/13/95	0620
09	1-21-1	2349011	R3745.D	04/13/95	0708
10	1-17-1	2349004	R3747.D	04/13/95	0842
11	1-17-1MS	2349005	R3748.D	04/13/95	0930
12	1-17-1MSD	2349006	R3749.D	04/13/95	1018
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Lab File ID: S3069.D DFTPP Injection Date: 02/22/95

Instrument ID: HPS DFTPP Injection Time: 1427

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.1
68	Less than 2.0% of mass 69	0.6 (1.0)1
69	Mass 69 relative abundance	55.6
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	51.6
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	21.3
365	Greater than 1.00% of mass 198	2.92
441	Present, but less than mass 443	6.9
442	Greater than 40.0% of mass 198	46.0
443	17.0 - 23.0% of mass 442	8.8 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	SSTD020	S3071.D	02/22/95	1529
02	SSTD050	SSTD050	S3072.D	02/22/95	1613
03	SSTD080	SSTD080	S3073.D	02/22/95	1703
04	SSTD120	SSTD120	S3074.D	02/22/95	1746
05	SSTD160	SSTD160	S3075.D	02/22/95	1832
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Lab File ID: S3817.D DFTPP Injection Date: 04/12/95

Instrument ID: HPS DFTPP Injection Time: 1327

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	52.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	47.5
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	25 8
365	Greater than 1.00% of mass 198	5.38
441	Present, but less than mass 443	10.2
442	Greater than 40.0% of mass 198	62.9
443	17.0 - 23.0% of mass 442	11.8 (18.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	S3818.D	04/12/95	1341
02	SBLK91	SB0406A	S3823.D	04/12/95	1724
03	1-23-1	2350501	S3824.D	04/12/95	1806
04	1-22-1	2350502	S3825.D	04/12/95	1848
05	1-22-1D	2350503	S3826.D	04/12/95	1931
06	1-19-1	2350504	S3827.D	04/12/95	2014
07	1-19-2	2350505	S3828.D	04/12/95	2057
08	1-24-1	2350506	S3829.D	04/12/95	2140
09	EQPBK2	2350507	S3831.D	04/12/95	2306
10	FLDBK2	2350508	S3832.D	04/12/95	2349
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: NYTEST ENV INC Contract: 9521649

Lab Code: NYTEST Case No.: 23490 SAS No.: SDG No.: WOR1A

Lab File ID: S3840.D DFTPP Injection Date: 04/13/95

Instrument ID: HPS DFTPP Injection Time: 1153

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	56.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	52.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.0
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	24.9
365	Greater than 1.00% of mass 198	4.44
441	Present, but less than mass 443	8.0
442	Greater than 40.0% of mass 198	54.9
443	17.0 - 23.0% of mass 442	10.0 (18.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	S3842.D	04/13/95	1251
02	SBLK92	WB0407A	S3843.D	04/13/95	1337
03					
04					
05					
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NYTEST ENVIRONMENTAL, INC.

REPORT OF ANALYSIS

We find as follows :

Log In No : 23505

Results in mg/Kg(dry basis) :

Sample Identification		Parameter(s) Total Petroleum Hydrocarbons	
Water Method Blank		1 U	mg/L
Water Method Detection Limit		1	mg/L
Soil Method Blank		10 U	
Soil Method Detection Limit		10	
LAB ID	CLIENT ID		
2350501	1-23-1	80	
2350502	1-22-1	110	
2350503	1-22-1D	730	
2350504	1-19-1	340	
2350505	1-19-2	230	
2350506	1-24-1	20	
2350507	EQPBK2	1	mg/L
2350508	FLDBK2	1 U	mg/L

U : Below method blank / method reporting limit

QC/QA REPORT

CLIENT : Operational Te

Log In Number : 23490

PARAMETER	Sample Result	Duplicate Sample Result	% RPD	Sample Result for spike	Spike Added	Spike + Sample Result	% Spike Recovered	Sample for QC from same sample? (dup/spike)
Total Petroleum Hydrocarbons, mg/Kg	92.4	97.5	5.4	92.4	369.0	491.2	108.1	YES/YES
Total Petroleum Hydrocarbons, mg/L	4.55	4.52	0.7	1 U	4.105	4.55	110.8	NO/NO

NC : Non-calcu able
NA : Non-Available

E : Above me od limit
U : Below method reporting limit

QC/QA REPORT

CLIENT : Operational Te

Log In Number : 23505

PARAMETER	Sample Result	Duplicate Sample Result	% RPD	Sample Result for spike	Spike Added	Spike + Sample Result	% Spike Recovered	Sample for QC from same sample? (dup/spike)
Total Petroleum Hydrocarbons, mg/Kg	77.0	76.5	0.7	77.0	386.0	531.0	117.6	YES/YES
Total Petroleum Hydrocarbons, mg/L	4.55	4.52	0.7	1 U	4.105	4.55	110.8	NO/NO

NC : Non-calculable
NA : Non-Available

E : Above method limit
U : Below method reporting limit

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PCB DATA

8000PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	1-16-1
CONC. LEVEL:	LOW	LAB SAMPLE ID:	2349001
EXTRACTION DATE:	04/06/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	5

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	84 U
2	11104-28-2	Aroclor-1221	84 U
3	11141-16-5	Aroclor-1232	84 U
4	53469-21-9	Aroclor-1242	84 U
5	12672-29-6	Aroclor-1248	84 U
6	11097-69-1	Aroclor-1254	84 U
7	11096-82-5	Aroclor-1260	84 U

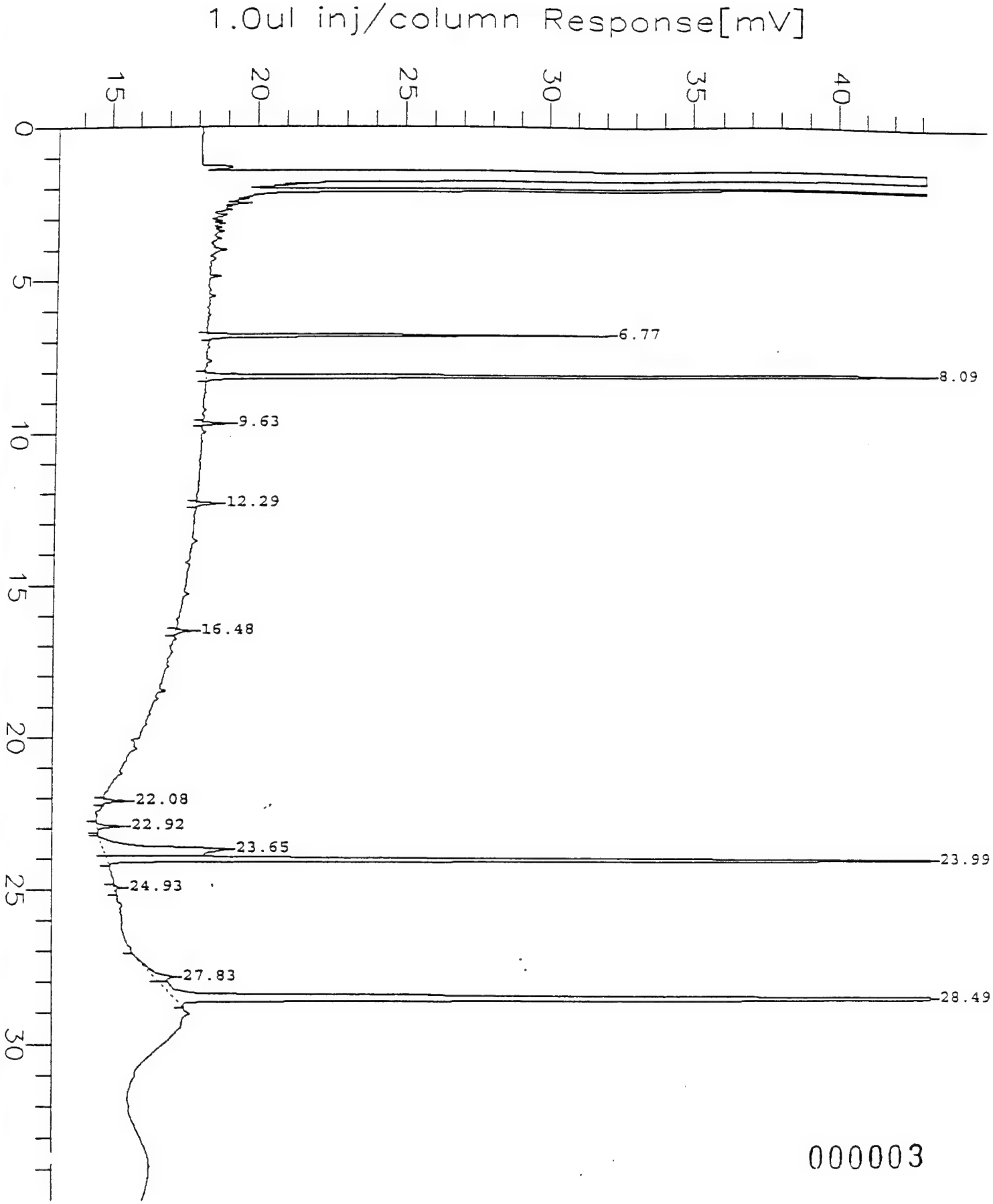
HP4-B DB-1701 0.53mm

Sample Name : 2349001
FileName : c:\2700\data4\423B032.raw
Method : hp4.ins
Start Time : 0.00 min
Scale Factor: -1

End Time : 35.00 min
Plot Offset: 13 mV

Sample #: 1-16-1
Date : 4/12/95 10:24
Time of Injection: 4/12/95 09:50
Low Point : 13.12 mV
Plot Scale: 30 mV

High Point : 43.12 mV



Software Version: 3.2 <16C20>

Sample Name : 2349001
Sample Number: 1-16-1
Operator : PATRICK

Time : 4/12/95 10:24
Study : 4-6-95

Instrument : 970-4:HP-4
AutoSampler : HP 7673A
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 09:50
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B032.raw
Result File : c:\2700\data4\423B032.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul
Sample Amount : 30.0000

Area Reject : 5000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

HP4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
1	6.77	54602	13709	BB	1000000	0.0546	0.000			
2	8.09	242095	61424	BB	7158473	0.0338	22.547		TCX 68%	
8	23.65	75557	4168	BV	1000000	0.0756	0.000			
9	23.99	239602	45747	VB	6073794	0.0395	26.300		DIBUTYLCHLORENDATE 40%	CON
11	27.83	9401	607	BV	1000000	0.0094	0.000			
12	28.49	405517	52517	VB	9385506	0.0432	28.806		DCB 86%	
		1026773	178172			0.2560	77.654			

NC=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY [illegible] 4/13/95 REVIEWED BY... [illegible]

8030PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	1-16-D
CONC. LEVEL:	LOW	LAB SAMPLE ID:	2349002
EXTRACTION DATE:	04/06/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	4

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	83 U
2	11104-28-2	Aroclor-1221	83 U
3	11141-16-5	Aroclor-1232	83 U
4	53469-21-9	Aroclor-1242	83 U
5	12672-29-6	Aroclor-1248	83 U
6	11097-69-1	Aroclor-125[illegible]	83 U
7	11096-82-5	Aroclor-1260	83 U

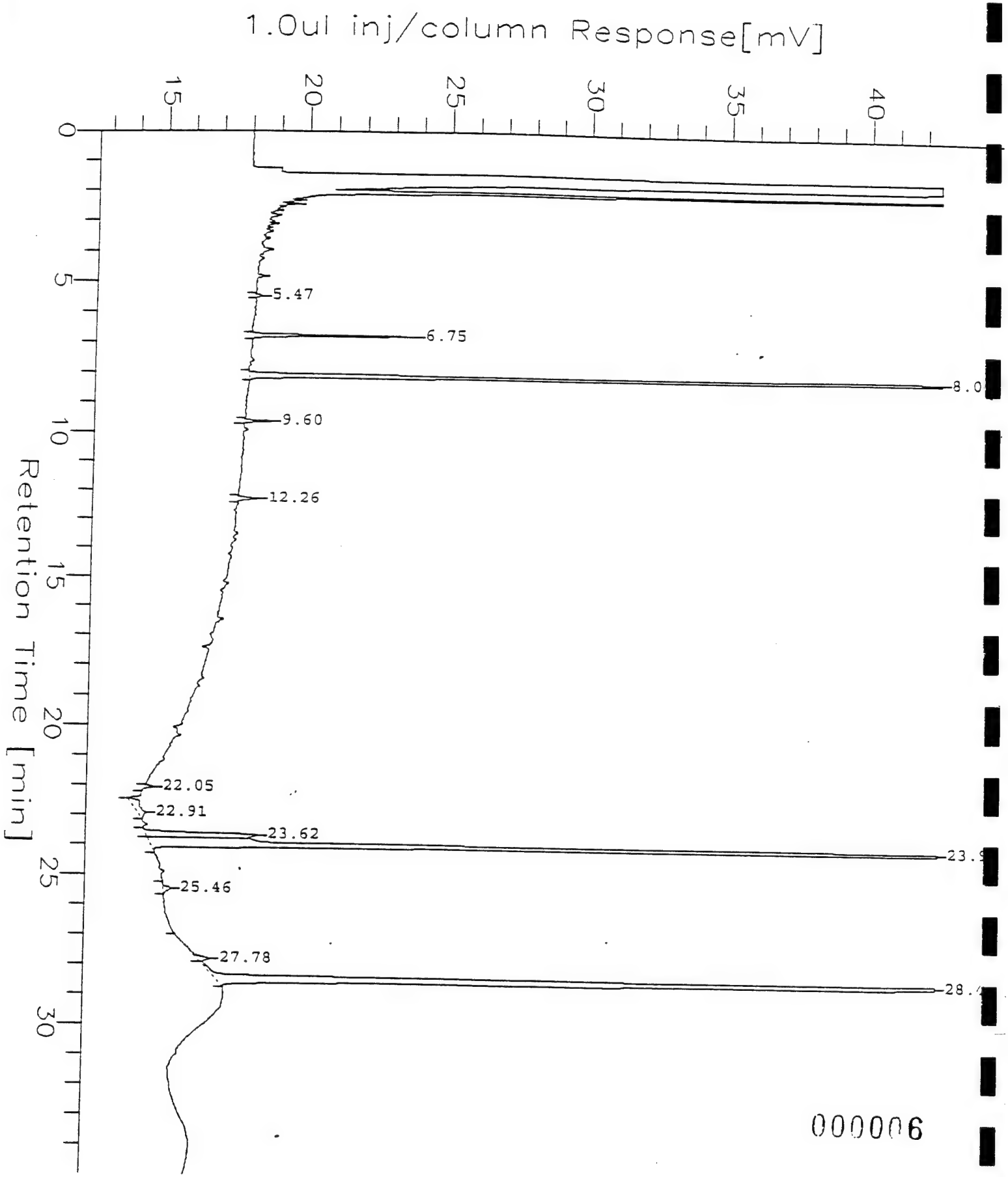
HP4-B DB-1701 0.53mm

Sample Name : 2349002
FileName : c:\2700\data4\423B043.raw
Method : hp4.ins
Start Time : 0.00 min
Scale Factor: -1

End Time : 35.00 min
Plot Offset: 13 mV

Sample #: 1-16-D
Date : 4/12/95 18:35
Time of Injection: 4/12/95 18:00
Low Point : 12.48 mV
Plot Scale: 30 mV

High Point : 42.48 mV



Software Version: 3.2 <16C20>

Sample Name : 2349002
Sample Number: 1-16-D
Operator : PATRICK

Time : 4/12/95 18:35
Study : 4-6-95

Instrument : 970-4:HP-4
AutoSampler : HP 7673A
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 18:00
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B043.raw
Result File : c:\2700\data4\423B043.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul
Sample Amount : 30.0000

Area Reject : 5000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

HP4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
2	6.75	21970	5711	BB	1000000	0.0220	0.000			
3	8.06	265025	68113	BB	7158474	0.0370	24.683		TCX 74%	
7	22.91	9041	295	BB	1000000	0.0090	0.000			
8	23.62	39306	3962	BV	1000000	0.0393	0.000			
9	23.96	379246	70180	VB	6073794	0.0624	41.629		DIBUTYLCHLORENDATE 62%	CON
12	28.44	442699	58908	VB	9385506	0.0472	31.447		DCB 92%	
		1157287	207169			0.2170	97.759			

NC=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY.. 4/12/95 REVIEWED BY. [illegible]

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	1-16-2
CONC. LEVEL:	LOW	LAB SAMPLE ID.	2349003
EXTRACTION DATE:	04/06/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	9

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	88 U
2	11104-28-2	Aroclor-1221	88 U
3	11141-16-5	Aroclor-1232	88 U
4	53469-21-9	Aroclor-1242	88 U
5	12672-29-6	Aroclor-1248	88 U
6	11097-69-1	Aroclor-1254	88 U
7	11096-82-5	Aroclor-1260	52 J

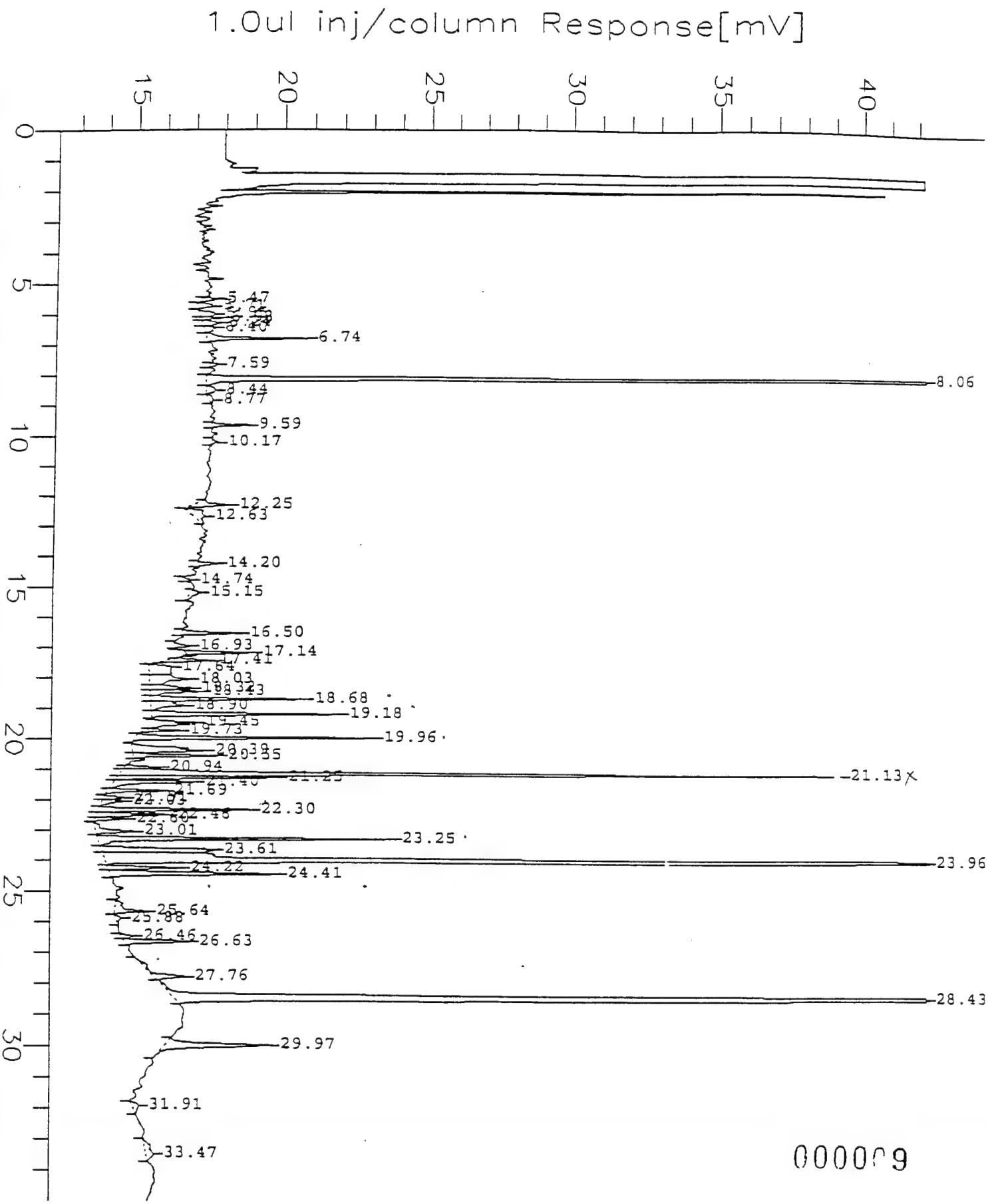
HP4-B DB-1701 0.53mm

Sample Name : 2349003
FileName : c:\2700\data4\423B044.raw
Method : hp4.ins
Start Time : 0.00 min
Scale Factor: -1

End Time : 35.00 min
Plot Offset: 12 mV

Sample #: 1-16-2
Date : 4/12/95 19:19
Time of Injection: 4/12/95 18:45
Low Point : 12.16 mV
Plot Scale: 30 mV

High Point : 42.16 mV



000009

Software Version: 3.2 <16C20>

Sample Name : 2349003
Sample Number: 1-16-2
Operator : PATRICK

Time : 4/12/95 19:19
Study : 4-6-95

Instrument : 970-4:HP-4
AutoSampler : HP 7673A
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 18:45
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B044.raw
Result File : c:\2700\data4\423B044.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul
Sample Amount : 30.0000

Area Reject : 5000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

HP4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
7	6.74	16311	3436	VB	1000000	0.0163	0.000			
9	8.06	349367	89083	BV	7158474	0.0488	32.538		TCX 98%	
14	12.25	7916	1251	BB	1000000	0.0079	0.000			
15	12.63	8954	393	BB	1000000	0.0090	0.000			
19	16.50	9367	2004	BB	1000000	0.0094	0.000			
21	17.14	9250	2307	BB	1000000	0.0093	0.000			
22	17.41	8103	1505	BB	1000000	0.0081	0.000			
23	17.64	13719	802	BV	1000000	0.0137	0.000			
24	18.03	15349	1377	VV	1000000	0.0154	0.000			
25	18.32	9543	1444	VV	1000000	0.0095	0.000			
26	18.43	9970	1765	VV	1000000	0.0100	0.000			
27	18.68	26682	5213	VV	1000000	0.0267	0.000			
28	18.90	10433	1152	VV	1000000	0.0104	0.000			
29	19.18	32059	6341	VB	1000000	0.0321	0.000			
32	19.96	39318	8107	BB	1000000	0.0393	0.000			
33	20.39	21581	2473	BV	1000000	0.0216	0.000			
34	20.55	13123	2872	VB	1000000	0.0131	0.000			
35	20.94	5603	1250	BV	1000000	0.0056	0.000			
36	21.13	125104	24733	VV	1000000	0.1251	0.000			
37	21.25	25108	5522	VV	1000000	0.0251	0.000			
38	21.40	15869	2815	VV	1000000	0.0159	0.000			
39	21.69	8894	1958	VB	1000000	0.0089	0.000			
42	22.30	26345	5230	BV	1000000	0.0264	0.000			
43	22.46	11529	2447	VV	1000000	0.0115	0.000			
44	22.60	5111	1110	VB	1000000	0.0051	0.000			
45	23.01	9078	1344	BB	1000000	0.0091	0.000			
46	23.25	53853	10049	BV	1000000	0.0539	0.000			
47	23.61	33459	3867	VV	1000000	0.0335	0.000			
48	23.96	375440	68750	VV	6073794	0.0618	41.211		DIBUTYLCHLORENDATE 62%	
49	24.22	11786	2520	VV	1000000	0.0118	0.000			
50	24.41	36339	5728	VB	1000000	0.0363	0.000			
1	25.64	9238	1106	BB	1000000	0.0092	0.000			
54	26.63	12494	2193	VB	1000000	0.0125	0.000			
55	27.76	9816	1072	BV	1000000	0.0098	0.000			
56	28.43	452764	60700	VB	9385506	0.0482	32.162		DCB 96%	
57	29.97	31864	3588	BB	1000000	0.0319	0.000			
59	33.47	6387	255	BB	1000000	0.0064	0.000			
		1867126	337760			0.8484	105.911			

000010

16 4/12/95

HP4-A DB608 0.53mm

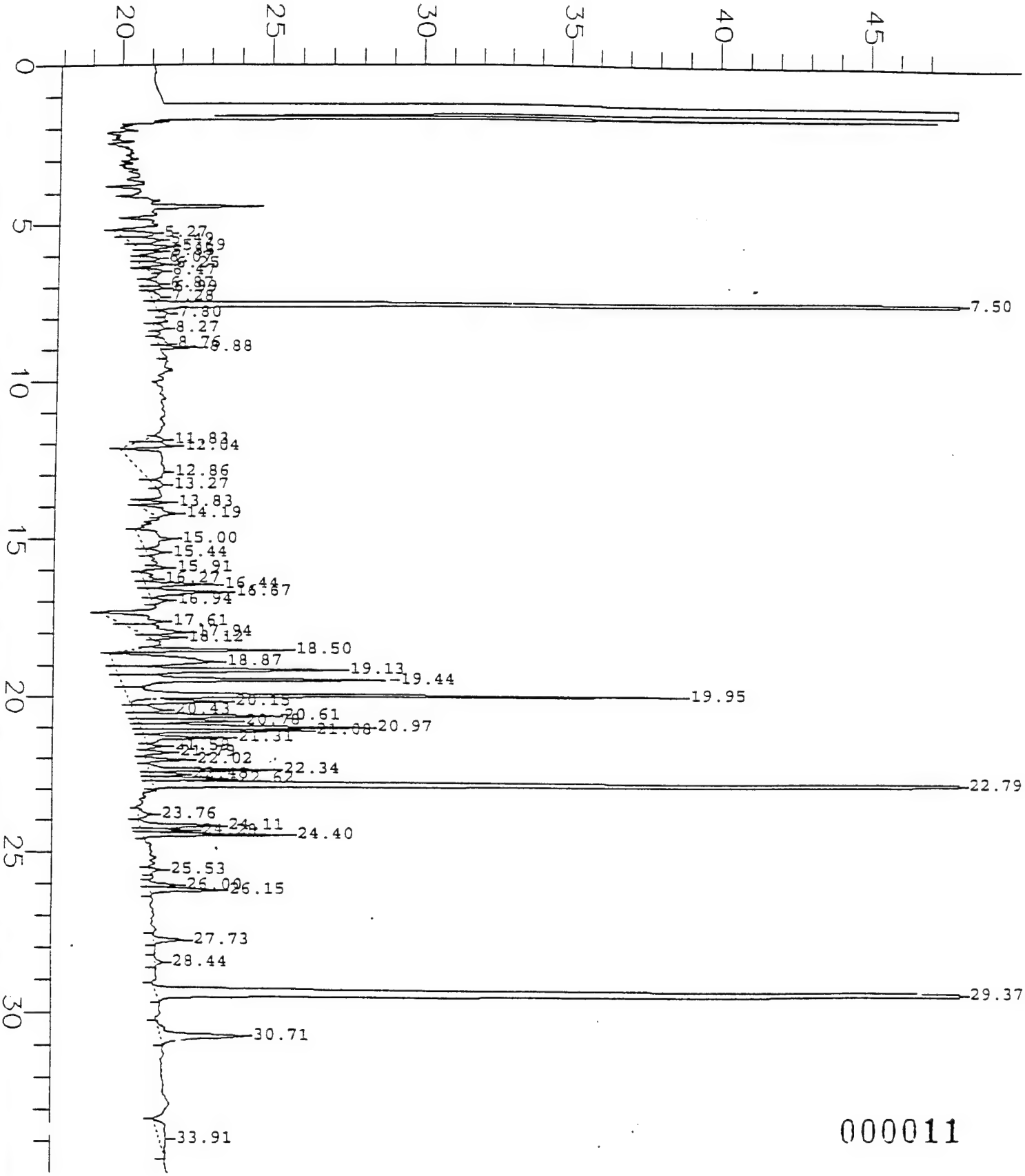
Sample Name : 2349003
FileName : c:\2700\data4\423A044.raw
Method : hp4.ins
Start Time : 0.00 min
Scale Factor: -1

End Time : 35.00 min
Plot Offset: 18 mV

Sample #: 1-16-2
Date : 4/12/95 19:19
Time of Injection: 4/12/95 18:45
Low Point : 17.90 mV
Plot Scale: 30 mV

High Point : 47.90 mV

1.0ul inj/column Response[mV]



000011

Software Version: 3.2 <16C20>

Sample Name : 2349003
Sample Number: 1-16-2
Operator : PATRICK

Time : 4/12/95 19:19
Study : 4-6-95

Instrument : 970-4:HP-4
AutoSampler : HP 7673A
Rack/Vial : 0/0

Channel : A A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 18:45
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423A044.raw
Result File : c:\2700\data4\423A044.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\401.prc
Sample File : c:\2700\data\423AN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul
Sample Amount : 30.0000

Area Reject : 6000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-608

HP4-A DB608 30M X 0.53 MM ID 150 C TO 275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
1	5.27	12760	1194	BV	1000000	0.0128	0.000			
2	5.49	10945	1086	VV	1000000	0.0110	0.000			
3	5.69	8080	1160	VV	1000000	0.0081	0.000			
6	6.25	6066	886	VB	1000000	0.0061	0.000			
11	7.50	422340	97483	VB	8548369	0.0494	32.939		TCX	
17	12.04	12912	1630	VB	1000000	0.0129	0.000			
18	12.86	51803	775	BV	1000000	0.0518	0.000			
21	14.19	11378	806	BB	1000000	0.0114	0.000			
22	15.00	21985	1066	BV	1000000	0.0220	0.000			
26	16.44	13225	2261	VV	1000000	0.0132	0.000			
27	16.67	19234	2552	VV	1000000	0.0192	0.000			
29	17.61	24826	1492	BV	1000000	0.0248	0.000			
30	17.94	21528	1598	VV	1000000	0.0215	0.000			
32	18.50	27248	5136	BB	1000000	0.0273	0.000			
33	18.87	53576	3413	BV	1000000	0.0536	0.000			
34	19.13	53688	7320	VV	1000000	0.0537	0.000			
35	19.44	64808	8860	VV	1000000	0.0648	0.000			
36	19.95	105704	18398	VB	1000000	0.1057	0.000			
37	20.15	18918	3055	BV	1000000	0.0189	0.000			
38	20.43	10596	1049	VV	1000000	0.0106	0.000			
39	20.61	31214	4558	VV	1000000	0.0312	0.000			
40	20.78	18474	3203	VV	1000000	0.0185	0.000			
41	20.97	46469	7420	VV	1000000	0.0465	0.000			
42	21.08	28086	5393	VV	1000000	0.0281	0.000			
43	21.31	16553	2726	VB	1000000	0.0166	0.000			
46	22.02	6939	1369	BV	1000000	0.0069	0.000			
47	22.34	21922	4115	VV	1000000	0.0219	0.000			
48	22.48	6198	1102	VV	1000000	0.0062	0.000			
49	22.62	13507	2560	VV	1000000	0.0135	0.000			
50	22.79	435905	80745	VB	12933000	0.0337	22.471		DIBUTYLCHLORENDATE	34%
52	24.11	18089	2588	BV	1000000	0.0181	0.000			
3	24.28	7579	660	VV	1000000	0.0076	.000			
54	24.40	22963	4744	VB	1000000	0.0230	0.000			
57	26.15	14155	2270	VB	1000000	0.0142	0.000			
58	27.73	6546	958	BB	1000000	0.0066	0.000			
60	29.37	446425	52605	BB	8791037	0.0508	33.856		DCB	102%
61	30.71	28934	2710	BB	1000000	0.0289	0.000			
62	33.91	13168	222	BB	1000000	0.0132	0.000			
		2154745	342168			0.9840	89.266			

000012

Software Version: 3.2 <16C20>
Date: 4/13/95 13:19
Sample Name : 2349003
Data File : c:\2700\data4\423B044.raw Date: 4/12/95 18:45
Sequence File: c:\2700\data4\423.seq Cycle: 44 Channel : B
Instrument : 970-4:HP-4 Rack/Vial: 0/0 Operator: PATRICK
Sample Amount : 30.0000 Dilution Factor : 1.00

PCB WORKSHEET DB-1701

HP4B DB1701 30M X 0.53 MM ID 150 C,275 C

W=97%

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Component Name
9	8.06	349367	89083	6686064	0.0523	34.8	TCX
13	10.17	1134	222	161010	0.0070	4.7	~~AROCLOR-1016~~
18	15.15	3283	303	312547	0.0105	7.0	~~AROCLOR-1016-5~~
7	18.68	26682	5213	301904	0.0884	58.9	AROCLOR-1260
9	19.18	32059	6341	468975	0.0684	45.6	AROCLOR-1260-2
2	19.96	39318	8107	554281	0.0709	47.3	AROCLOR-1260-3
36	21.13	125104	24733	699411	0.1789	119.3	~~AROCLOR-1260-4~~
46	23.25	53853	10049	778075	0.0692	46.1	AROCLOR-1260-5
3	23.96	375440	68750	5649153	0.0665	44.3	DIBUTYLCHLORENDATE
0	24.41	36339	5728	602415	0.0603	40.2	AROCLOR1260-6
5	28.43	452764	60700	9004643	0.0503	33.5	DCB
		1495344	279228		0.7226	481.8	

$\bar{X}$ = 48 PPB
= 52 PPB (DRY)

PREPARED BY. 4/13/95 REVIEWED BY.

Software Version: 3.2 <16C20>
Date: 4/13/95 13:19
Sample Name : 2349003
Data File : c:\2700\data4\423A044.raw Date: 4/12/95 18:45
Sequence File: c:\2700\data4\423.seq Cycle: 44 Channel : A
Instrument : 970-4:HP-4 Rack/Vial: 0/0 Operator: PATRICK
Sample Amount : 30.0000 Dilution Factor : 1.00

PCB WORKSHEET DB-608

HP4A DB608 30M X 0.53 MM ID 150 C,275 C

m=970.

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Component Name
11	7.50	422340	97483	8090921	0.0522	34.8	TCX
19	13.27	4337	326	277217	0.0157	10.4	~~AROCLOR-1016-4~~
22	15.00	21985	1066	279871	0.0786	52.4	~~AROCLOR-1016-5~~
32	18.50	27248	5136	319055	0.0854	56.9	AROCLOR-1260
34	19.13	53688	7320	572189	0.0938	62.6	AROCLOR-1260-2
35	19.44	64808	8860	582291	0.1113	74.2	AROCLOR-1260-3
39	20.61	31214	4558	378134	0.0826	55.0	AROCLOR-1260-4
41	20.97	46469	7420	526463	0.0883	58.9	AROCLOR-1260-5
50	22.79	435905	80745	12287000	0.0355	23.7	DIBUTYLCHLORENDATE
54	24.40	22963	4744	423843	0.0542	36.1	AROCLOR-1260-6
60	29.37	446425	52605	8378933	0.0533	35.5	DCB
		1577381	270262		0.7507	500.5	

LOW.

PREPARED BY... 5/W4 12/95. REVIEWED BY...

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

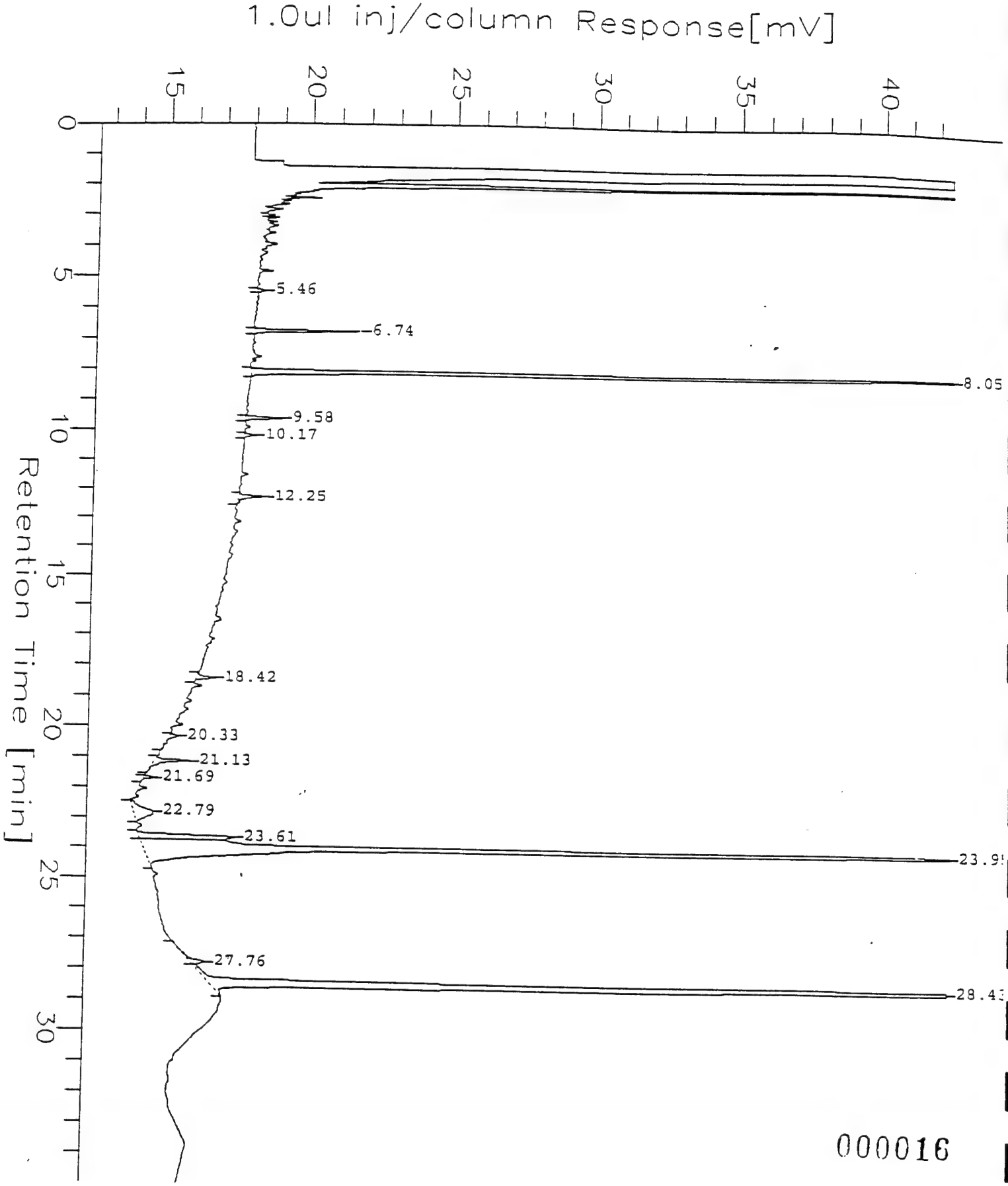
SAMPLE MATRIX:	SOIL	SAMPLE ID:	1-17-1
CONC. LEVEL:	LOW	LAB SAMPLE ID:	2349004
EXTRACTION DATE:	04/06/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	3

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	82 U
2	11104-28-2	Aroclor-1221	82 U
3	11141-16-5	Aroclor-1232	82 U
4	53469-21-9	Aroclor-1242	82 U
5	12672-29-6	Aroclor-1248	82 U
6	11097-69-1	Aroclor-1254	82 U
7	11096-82-5	Aroclor-1260	82 U

HP4-B DB-1701 0.53mm

Sample Name : 2349004
FileName : c:\2700\data4\423B045.raw
Method : hp4.ins
Start Time : 0.00 min
End Time : 35.00 min
Scale Factor: -1
Plot Offset: 12 mV

Sample #: 1-17-1
Date : 4/12/95 20:04
Time of Injection: 4/12/95 19:29
Low Point : 12.44 mV
High Point : 42.44 mV
Plot Scale: 30 mV



000016

Software Version: 3.2 <16C20>

Sample Name : 2349004
Sample Number: 1-17-1
Operator : PATRICK

Time : 4/12/95 20:04
Study : 4-6-95

Instrument : 970-4:HP-4
AutoSampler : HP 7673A
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 19:29
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B045.raw
Result File : c:\2700\data4\423B045.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul
Sample Amount : 30.0000

Area Reject : 5000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

HP4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
2	6.74	13991	3738	BB	1000000	0.0140	0.000			
3	8.05	295922	77593	BB	7158474	0.0413	27.561		TCX 83%	
4	9.58	5844	1292	BB	1000000	0.0058	0.000			
5	12.25	5179	897	BB	1000000	0.0052	0.000			
6	21.13	7501	1244	BB	1000000	0.0075	0.000			
--	22.79	14694	706	BB	1000000	0.0147	0.000			
12	23.61	33114	3369	BV	1000000	0.0331	0.000			
13	23.95	401144	59233	VB	6073794	0.0660	44.032		DIBUTYLCHLORENDATE 66%	CNL
14	28.43	449868	60182	VB	9385506	0.0479	31.956		DCB 96%	
		1227255	208254			0.2356	103.549			

NC=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY. [illegible] REVIEWED BY. [illegible]

000017

8010PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL
CONC. LEVEL: LOW
EXTRACTION DATE: 04/06/95
ANALYSIS DATE: 04/12/95

SAMPLE ID: 1-17-2
LAB SAMPLE ID: 2349007
DIL FACTOR: 1.00
% MOISTURE: 8

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	87 U
2	11104-28-2	Aroclor-1221	87 U
3	11141-16-5	Aroclor-1232	87 U
4	53469-21-9	Aroclor-1242	87 U
5	12672-29-6	Aroclor-1248	87 U
6	11097-69-1	Aroclor-1254	87 U
7	11096-82-5	Aroclor-1260	87 U

HP4-B DB-1701 0.53mm

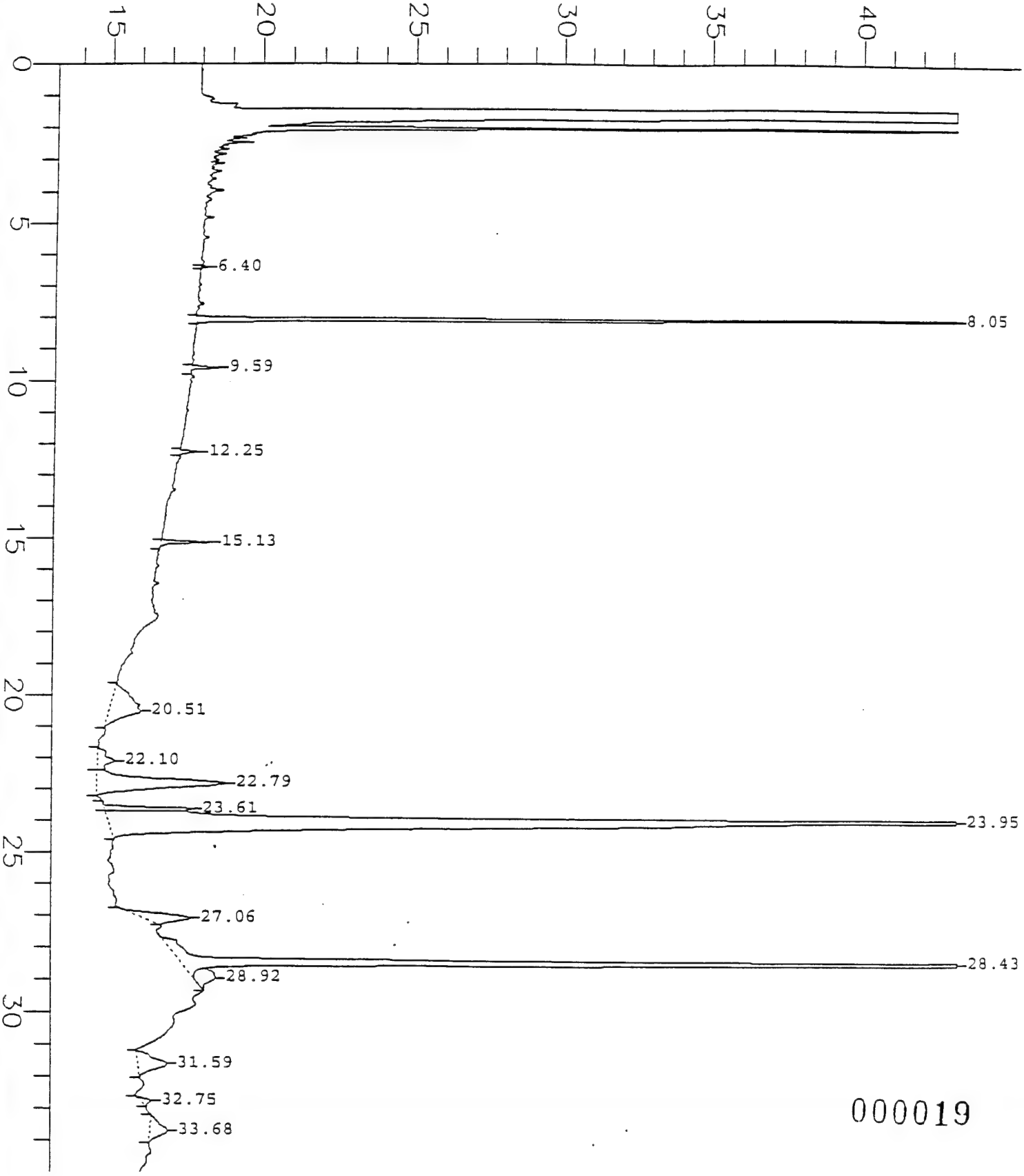
mple Name : 2349007
leName : c:\2700\data4\423B048.raw
Method : hp4.ins
tart Time : 0.00 min
cale Factor: -1

End Time : 35.00 min
Plot Offset: 13 mV

Sample #: 1-17-2
Date : 4/12/95 22:17
Time of Injection: 4/12/95 21:42
Low Point : 13.13 mV
Plot Scale: 30 mV

High Point : 43.13 mV

1.0ul inj/column Response[mV]



000019

Software Version: 3.2 <16C20>

Sample Name : 2349007
Sample Number: 1-17-2
Operator : PATRICK

Time : 4/12/95 22:17
Study : 4-6-95

Instrument : 970-4:HP-4
AutoSampler : HP 7673A
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 21:42
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B048.raw
Result File : c:\2700\data4\423B048.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul
Sample Amount : 30.0000

Area Reject : 5000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

HP4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
2	8.05	205364	53897	BB	7158474	0.0287	19.127		TCX 57%	
5	15.13	7490	1657	BB	1000000	0.0075	0.000			
6	20.51	45250	1083	BB	1000000	0.0453	0.000			
7	22.10	12660	562	BV	1000000	0.0127	0.000			
8	22.79	87405	4293	VB	1000000	0.0874	0.000			
9	23.61	21471	2924	BV	1000000	0.0215	0.000			
10	23.95	683929	69100	VB	6073794	0.1126	75.073			
11	27.06	25195	1585	BB	1000000	0.0252	0.000		DIBUTYLCHLORENDATE 13%	
12	28.43	378542	48124	BB	9385506	0.0403	26.890			
13	28.92	16672	707	BB	1000000	0.0167	0.000		DCB 31%	
14	31.59	24581	976	BB	1000000	0.0246	0.000			
16	33.68	15460	597	BB	1000000	0.0155	0.000			
		1524020	185504			0.4378	121.089			

NC=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY: [illegible] REVIEWED BY: [illegible]

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	1-18-1
CONC. LEVEL:	LOW	LAB SAMPLE ID:	2349008
EXTRACTION DATE:	04/06/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	5

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	84 U
2	11104-28-2	Aroclor-1221	84 U
3	11141-16-5	Aroclor-1232	84 U
4	53469-21-9	Aroclor-1242	84 U
5	12672-29-6	Aroclor-1248	84 U
6	11097-69-1	Aroclor-125	84 U
7	11096-82-5	Aroclor-1260	84 U

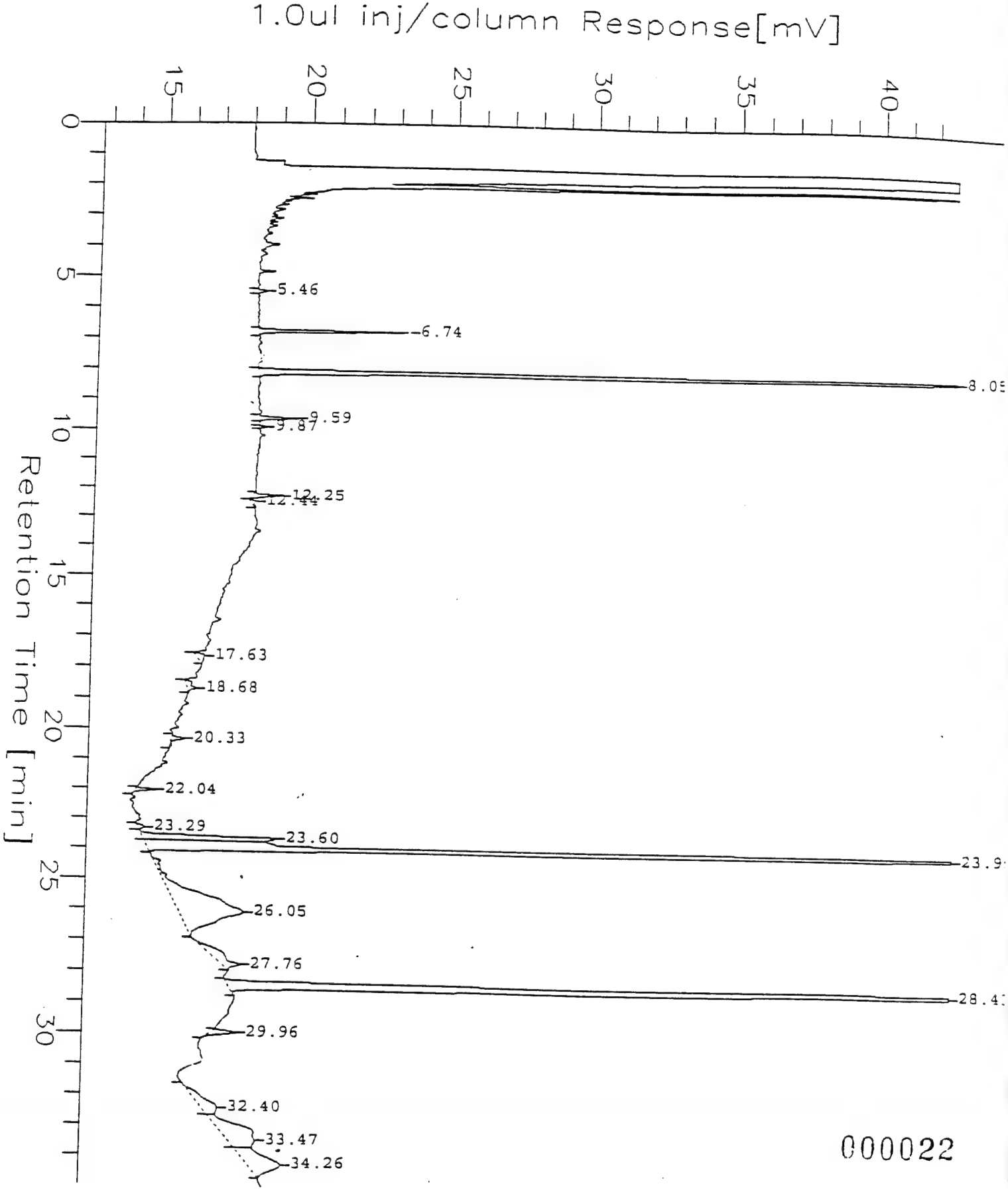
HP4-B DB-1701 0.53mm

Sample Name : 2349008
FileName : c:\2700\data4\423B049.raw
Method : hp4.ins
Start Time : 0.00 min
Scale Factor: -1

End Time : 35.00 min
Plot Offset: 13 mV

Sample #: 1-18-1
Date : 4/12/95 23:02
Time of Injection: 4/12/95 22:27
Low Point : 12.64 mV
Plot Scale: 30 mV

High Point : 42.64 mV



Software Version: 3.2 <16C20>

Sample Name : 2349008
Sample Number: 1-18-1
Operator : PATRICK

Time : 4/12/95 23:02
Study : 4-6-95

Instrument : 970-4:HP-4
AutoSampler : HP 7673A
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 22:27
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B049.raw
Result File : c:\2700\data4\423B049.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul
Sample Amount : 30.0000

Area Reject : 5000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

HP4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

Peak	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
	6.74	19807	5185	BB	1000000	0.0198	0.000			
3	8.05	347968	90066	BB	7158474	0.0486	32.408		TCX 97%	
	9.59	5823	1349	BB	1000000	0.0058	0.000			
	12.25	5041	1005	BB	1000000	0.0050	0.000			
	23.60	47346	4655	VV	1000000	0.0474	0.000			
	23.95	450020	83992	VB	6073794	0.0741	49.397		DIBUTYLCHLORENDATE 74%	CON.
15	26.05	127815	2261	BB	1000000	0.1278	0.000			
	27.76	19505	623	BB	1000000	0.0195	0.000			
	28.43	469753	64480	BB	9385506	0.0501	33.369		DCB 100%	
	29.96	6980	904	BB	1000000	0.0070	0.000			
	32.40	19252	566	BV	1000000	0.0193	0.000			
20	33.47	50927	939	VV	1000000	0.0509	0.000			
	34.26	42752	1146	VB	1000000	0.0428	0.000			
		1612988	257171			0.5180	115.174			

=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY [illegible] 4/19/95 REVIEWED BY. [illegible]

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL
CONC. LEVEL: LOW
EXTRACTION DATE: 04/06/95
ANALYSIS DATE: 04/13/95

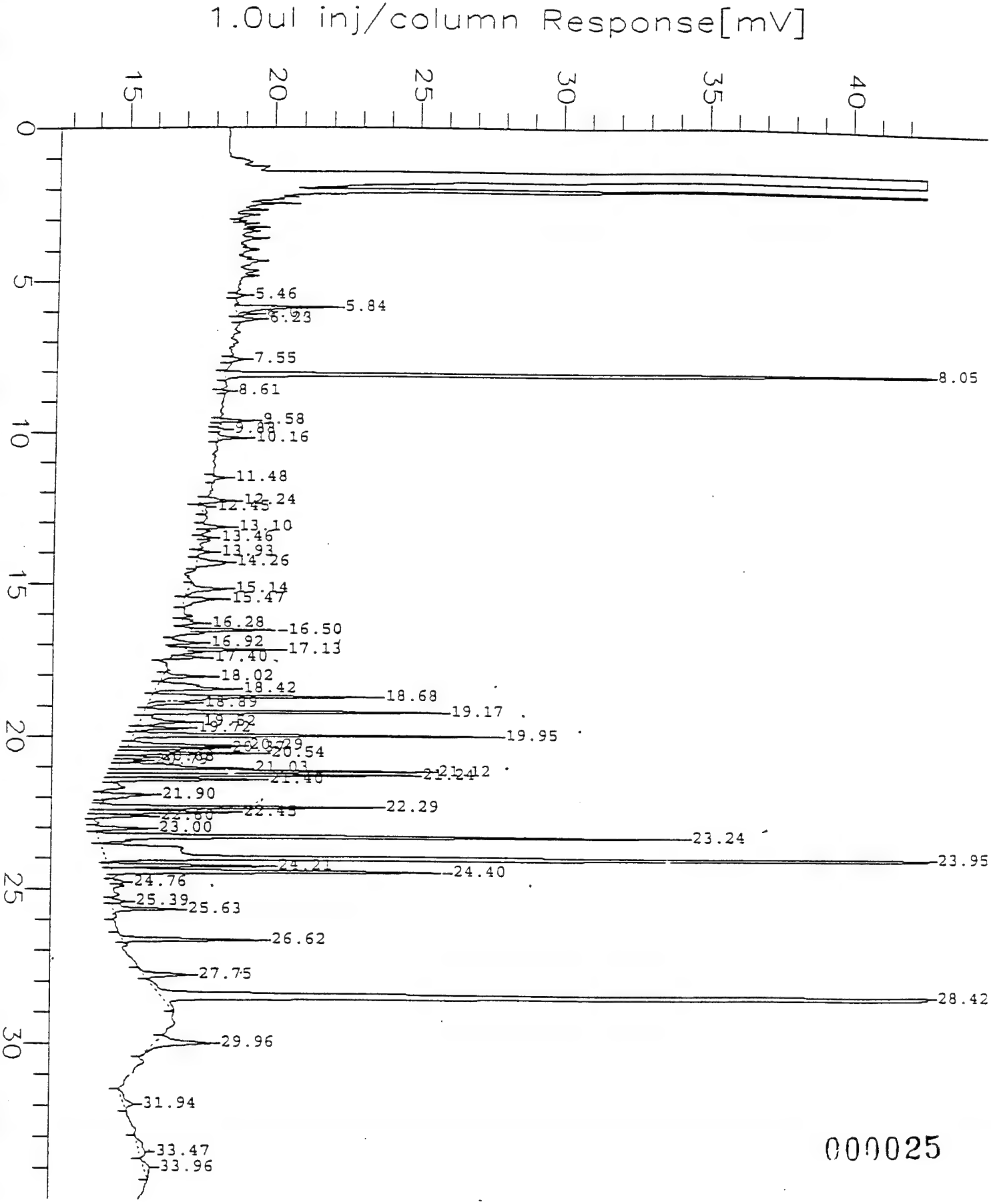
SAMPLE ID: 1-18-2
LAB SAMPLE ID 2349009
DIL FACTOR: 1.00
% MOISTURE: 8

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	87 U
2	11104-28-2	Aroclor-1221	87 U
3	11141-16-5	Aroclor-1232	87 U
4	53469-21-9	Aroclor-1242	87 U
5	12672-29-6	Aroclor-1248	87 U
6	11097-69-1	Aroclor-1254	87 U
7	11096-82-5	Aroclor-1260	85 J

HP4-B DB-1701 0.53mm

Sample Name : 2349009
FileName : c:\2700\data4\424B002.raw
Method : hp4.ins
Start Time : 0.00 min
End Time : 35.00 min
Scale Factor: -1
Plot Offset: 13 mV

Sample #: 1-18-2
Date : 4/13/95 14:45
Time of Injection: 4/13/95 14:09
Low Point : 12.56 mV
High Point : 42.56 mV
Plot Scale: 30 mV



000025

Software Version: 3.2 <16C20>

Sample Name : 2349009
Sample Number: 1-18-2
Operator :

Time : 4/13/95 14:45
Study : 4-6-95

Instrument : 970-4:HP-4
AutoSampler : HP 7673A
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/13/95 14:09
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\424B002.raw
Result File : c:\2700\data4\424B002.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\424.seq

Inj. Volume : 1 ul
Sample Amount : 30..000

Area Reject : 5000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

HP4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
2	5.84	21911	3416	BB	1000000	0.0219	0.000			
6	8.05	300157	78952	BB	7158474	0.0419	27.955		TCX 249/0	
12	12.24	7476	1106	BB	1000000	0.0075	0.000			
17	14.26	10272	1032	VB	1000000	0.0103	0.000			
18	15.14	9947	1247	BB	1000000	0.0100	0.000			
19	15.47	10043	1271	BB	1000000	0.0100	0.000			
21	16.50	12034	2890	BB	1000000	0.0120	0.000			
23	17.13	12436	3072	BB	1000000	0.0124	0.000			
24	17.40	5234	1125	BB	1000000	0.0052	0.000			
25	18.02	8526	1613	BV	1000000	0.0085	0.000			
26	18.42	23555	2647	VB	1000000	0.0236	0.000			
27	18.68	45972	7625	BB	1000000	0.0460	0.000			
28	18.89	8116	1513	BV	1000000	0.0081	0.000			
29	19.17	51240	10142	VV	1000000	0.0512	0.000			
30	19.52	15700	1816	VV	1000000	0.0157	0.000			
31	19.72	8649	1749	VV	1000000	0.0087	0.000			
32	19.95	60591	12412	VV	1000000	0.0606	0.000			
33	20.29	21944	3791	VV	1000000	0.0219	0.000			
34	20.37	13588	3224	VV	1000000	0.0136	0.000			
35	20.54	23220	4634	VV	1000000	0.0232	0.000			
38	21.03	30008	4340	VV	1000000	0.0300	0.000			
39	21.12	52145	10661	VV	1000000	0.0522	0.000			
40	21.24	49153	10202	VV	1000000	0.0492	0.000			
41	21.40	23698	5020	VB	1000000	0.0237	0.000			
42	21.90	11787	1714	BB	1000000	0.0118	0.000			
43	22.29	49678	9395	BV	1000000	0.0497	0.000			
44	22.45	21656	4647	VV	1000000	0.0217	0.000			
45	22.60	8497	1894	VB	1000000	0.0085	0.000			
46	23.00	9148	1812	BB	1000000	0.0092	0.000			
47	23.24	109433	20152	BV	1000000	0.1094	0.000			
48	23.95	299603	51632	VB	6073794	0.0493	32.886		DIBUTYLCHLORENDATE 49%/0	
49	24.21	25247	398	BV	1000000	0.0253	0.000			
50	24.40	70377	11240	VB	1000000	0.0704	0.000			
53	25.63	14319	2208	VB	1000000	0.0143	0.000			
54	26.62	27003	4756	BB	1000000	0.0270	0.000			
55	27.75	10268	1516	BV	1000000	0.0103	0.000			
56	28.42	358556	48413	VB	9385506	0.0382	25.470		DCB 76%/0	
57	29.96	20139	1890	BB	1000000	0.0201	0.000			
59	33.47	6265	228	BB	1000000	0.0063	0.000			

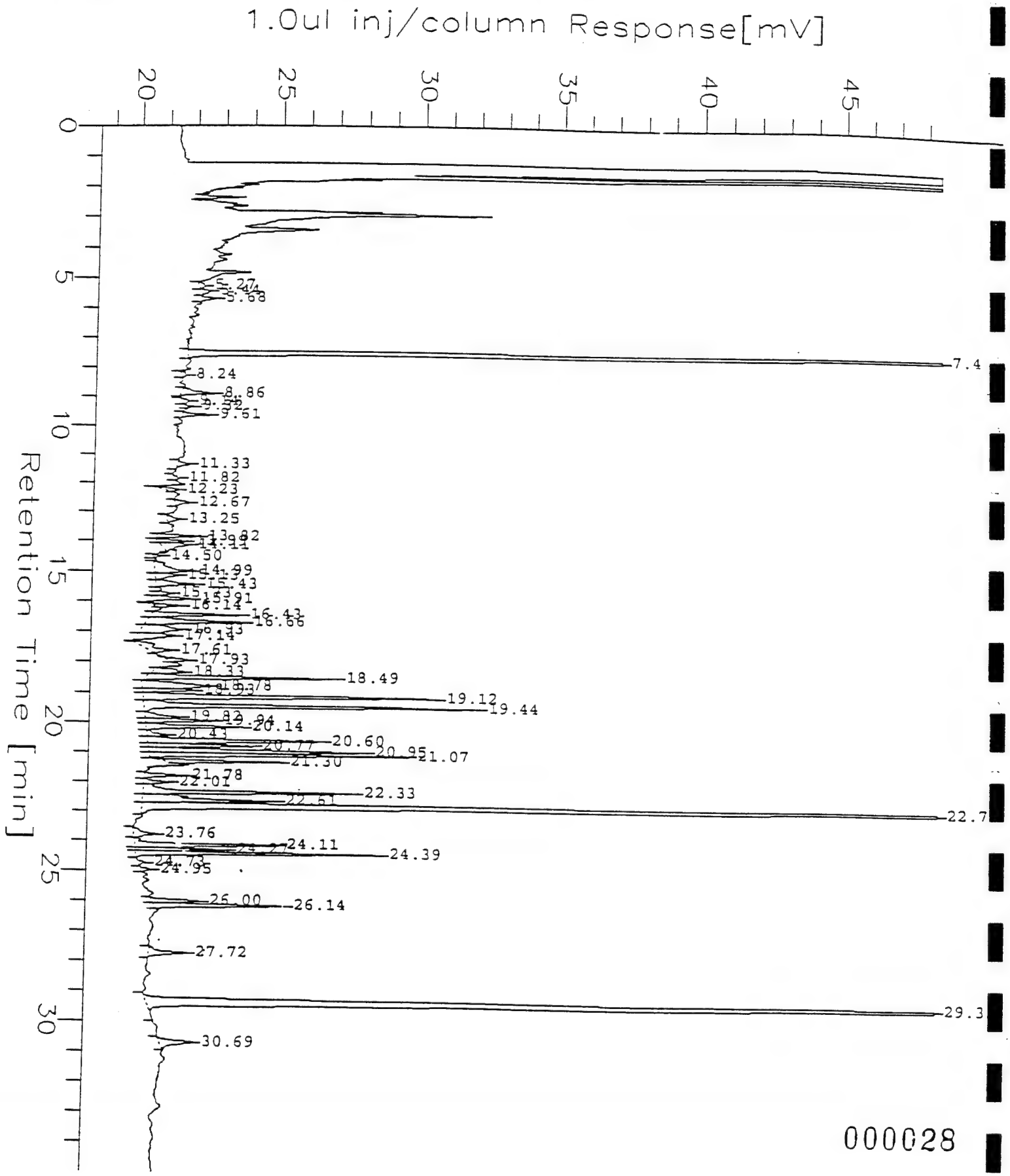
NC=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY. REVIEWED BY.

HP4-A DB608 0.53mm

Sample Name : 2349009
FileName : c:\2700\data4\424A002.raw
Method : hp4.ins
Start Time : 0.00 min
Scale Factor: -1

End Time : 35.00 min
Plot Offset: 18 mV

Sample #: 1-18-2
Date : 4/13/95 14:45
Time of Injection: 4/13/95 14:09
Low Point : 18.45 mV
Plot Scale: 30 mV



000028

Software Version: 3.2 <16C20>

Sample Name : 2349009 | Time : 4/13/95 14:44
Sample Number: 1-18-2 | Study : 4-6-95
Operator :

Instrument : 970-4:HP-4 | Channel : A | A/D mV Range : 1000
AutoSampler : HP 7673A
Rack/Vial : 0/0

Interface Serial # : 0187572363 Data Acquisition Time: 4/13/95 14:09
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\424A002.raw
Result File : c:\2700\data4\424A002.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\401.prc
Sample File : c:\2700\data\423AN-60.smp
Sequence File : C:\2700\DATA4\424.seq

Inj. Volume : 1 ul | Area Reject : 6000.00
Sample Amount : 30.0000 | Dilution Factor : 1.00

PEST-PCB REPORT DB-608

HP4-A DB608 30M X 0.53 MM ID 150 C TO 275 C

eak #	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
4	7.49	354812	83737	BB	8548369	0.0415	27.672		TCX 83%	
6	8.86	7838	1194	BB	1000000	0.0078	0.000			
15	13.82	6973	1511	BB	1000000	0.0070	0.000			
17	14.11	8712	993	VB	1000000	0.0087	0.000			
19	14.99	13692	1298	BV	1000000	0.0137	0.000			
21	15.43	9428	1424	VB	1000000	0.0094	0.000			
23	15.91	8860	1506	VB	1000000	0.0089	0.000			
25	16.43	17052	3156	BV	1000000	0.0171	0.000			
26	16.66	25084	3455	VV	1000000	0.0251	0.000			
27	16.93	16628	1504	VV	1000000	0.0166	0.000			
28	17.14	11863	1375	VB	1000000	0.0119	0.000			
29	17.61	9763	782	BV	1000000	0.0098	0.000			
31	18.33	9370	1135	BV	1000000	0.0094	0.000			
32	18.49	36418	6734	VB	1000000	0.0364	0.000			
33	18.78	25390	2453	BV	1000000	0.0254	0.000			
34	18.93	9920	1857	VV	1000000	0.0099	0.000			
35	19.12	62197	10332	VV	1000000	0.0622	0.000			
36	19.44	64548	11787	VV	1000000	0.0646	0.000			
37	19.82	8514	1264	VV	1000000	0.0085	0.000			
38	19.94	13066	2435	VV	1000000	0.0131	0.000			
39	20.14	18326	3421	VV	1000000	0.0183	0.000			
41	20.60	40075	6146	VV	1000000	0.0401	0.000			
42	20.77	19178	3698	VV	1000000	0.0192	0.000			
43	20.95	47495	7596	VV	1000000	0.0475	0.000			
44	21.07	45957	9080	VB	1000000	0.0460	0.000			
45	21.30	19025	4091	BB	1000000	0.0190	0.000			
46	21.78	7042	1349	BV	1000000	0.0070	0.000			
48	22.33	42733	7414	VV	1000000	0.0427	0.000			
49	22.61	34547	4709	VV	1000000	0.0346	0.000			
50	22.79	366515	63909	VB	12933000	0.0283	18.894		DIBUTYLCHLORENDATE 78%	
51	23.76	6820	782	BV	1000000	0.0068	0.000			
52	24.11	32483	5001	VV	1000000	0.0325	0.000			
53	24.27	16035	3233	VV	1000000	0.0160	0.000			
54	24.39	42936	8570	VB	1000000	0.0429	0.000			
57	26.00	9453	1692	BV	1000000	0.0095	0.000			
58	26.14	25966	4563	VB	1000000	0.0260	0.000			
59	27.72	9721	1307	BB	1000000	0.0097	0.000			
60	29.35	324140	38989	BB	8791037	0.0369	24.582		DCB 70%	
61	30.69	10500	1143	BB	1000000	0.0105	0.000			

000029

1839076 316624 0.9003 71.149

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oftware Version: 3.2 <16C20>
ate: 4/13/95 15:12
ample Name : 2349009
ata File : c:\2700\data4\424B002.raw Date: 4/13/95 14:09
equence File: C:\2700\DATA4\424.seq Cycle: 2 Channel : B
nstrument : 970-4:HP-4 Rack/Vial: 0/0 Operator:
ample Amount : 30.0000 Dilution Factor : 1.00

PCB WORKSHEET DB-1701

P4B DB1701 30M X 0.53 MM ID 150 C,275 C

RI = 8%

ak #	Ret Time [min]	Area [uV-sec]	Height [uV]	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Component Name
6	8.05	300157	78952	6686064	0.0449	29.9	TCX
0	10.16	4820	980	161010	0.0299	20.0	~~AROCLOR-1016~~
1	11.48	1733	404	356531	0.0049	3.2	AROCLOR-1016-2
4	13.10	3859	819	618283	0.0062	4.2	AROCLOR-1016-3
8	15.14	9947	1247	312547	0.0318	21.2	~~AROCLOR-1016-5~~
27	18.68	45972	7625	301904	0.1523	101.5	AROCLOR-1260
9	19.17	51240	10142	468975	0.1093	72.8	AROCLOR-1260-2
2	19.95	60591	12412	554281	0.1093	72.9	AROCLOR-1260-3
9	21.12	52145	10661	699411	0.0746	49.7	AROCLOR-1260-4
7	23.24	109433	20152	778075	0.1407	93.8	AROCLOR-1260-5
48	23.95	299603	51632	5649152	0.0530	35.4	DIBUTYLCHLORENDATE
50	24.40	70377	11240	602415	0.1168	77.9	AROCLOR1260-6
5	28.42	358556	48413	9004643	0.0398	26.6	DCB
		1368434	254678		0.9135	609.0	

$\bar{X}$ = 73 PPB
= 85 PPB (PRY)

very low concentration!
AR 1248

PREPARED BY 4/13/95 REVIEWED BY..

Software Version: 3.2 <16C20>
Date: 4/13/95 15:12
Sample Name : 2349009
Data File : c:\2700\data4\424A002.raw Date: 4/13/95 14:09
Sequence File: C:\2700\DATA4\424.seq Cycle: 2 Channel : A
Instrument : 970-4:HP-4 Rack/Vial: 0/0 Operator:
Sample Amount : 30.0000 Dilution Factor : 1.00

2°

PCB WORKSHEET DB-608

HP4A DB608 30M X 0.53 MM ID 150 C,275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Component Name
4	7.49	354812	83737	8090921	0.0439	29.2	TCX
10	11.33	2954	443	442818	0.0067	4.5	~~AROCLOR-1016-2~~
13	12.67	3458	501	704973	0.0049	3.3	AROCLOR-1016-3
14	13.25	3495	413	277217	0.0126	8.4	AROCLOR-1016-4
19	14.99	13692	1298	279871	0.0489	32.6	~~AROCLOR-1016-5~~
32	18.49	36418	6734	319055	0.1141	76.1	AROCLOR-1260
35	19.12	62197	10332	572189	0.1087	72.5	AROCLOR-1260-2
36	19.44	64548	11787	582291	0.1109	73.9	AROCLOR-1260-3
41	20.60	40075	6146	378134	0.1060	70.7	AROCLOR-1260-4
43	20.95	47495	7596	526463	0.0902	60.2	AROCLOR-1260-5
50	22.79	366515	63909	12287000	0.0298	19.9	DIBUTYLCHLORENDATE
54	24.39	42936	8570	423843	0.1013	67.5	AROCLOR-1260-6
60	29.35	324140	38989	8378933	0.0387	25.8	DCB
		1362734	240456		0.8167	544.5	

1012

PREPARED BY... [illegible] 4/13/95 REVIEWED BY...

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	1-20-1
CONC. LEVEL:	LOW	LAB SAMPLE ID:	2349010
EXTRACTION DATE:	04/06/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/13/95	% MOISTURE:	10

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	89 U
2	11104-28-2	Aroclor-1221	89 U
3	11141-16-5	Aroclor-1232	89 U
4	53469-21-9	Aroclor-1242	89 U
5	12672-29-6	Aroclor-1248	89 U
6	11097-69-1	Aroclor-12	89 U
7	11096-82-5	Aroclor-1260	89 U

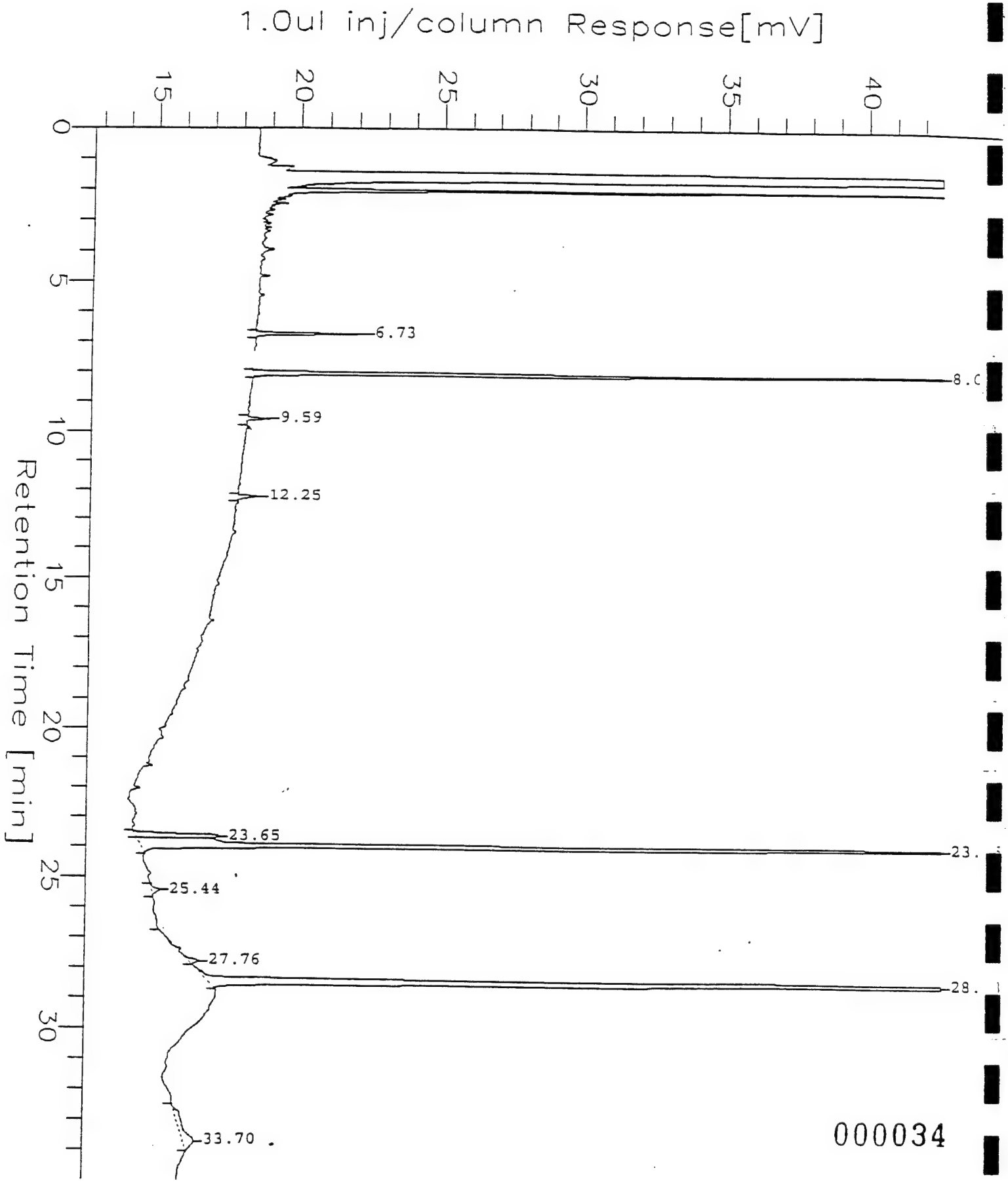
HP4-B DB-1701 0.53mm

Sample Name : 2349010
FileName : c:\2700\data4\424B003.raw
Method : hp4.ins
Start Time : 0.00 min
Scale Factor: -1

End Time : 35.00 min
Plot Offset: 13 mV

Sample #: 1-20-1
Date : 4/13/95 15:56
Time of Injection: 4/13/95 15:20
Low Point : 12.63 mV
Plot Scale: 30 mV

High Point : 42.63 mV



Software Version: 3.2 <16C20>

Sample Name : 2349010 Time : 4/13/95 15:56
Sample Number: 1-20-1 Study : 4-6-95
Operator :

Instrument : 970-4:HP-4 Channel : B A/D mV Range : 1000
AutoSampler : HP 7673A
Rack/Vial : 0/0

Interface Serial # : 0187572363 Data Acquisition Time: 4/13/95 15:20
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\424B003.raw
Result File : c:\2700\data4\424B003.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\424.seq

Inj. Volume : 1 ul Area Reject : 5000.00
Sample Amount : 30.0000 Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

HP4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
1	6.73	14207	3761	BB	1000000	0.0142	0.000			
2	8.05	196686	51270	BB	7158474	0.0275	18.318		TCX 5/6	
5	23.65	30183	2940	BV	1000000	0.0302	0.000			
6	23.95	281241	50888	VB	6073794	0.0463	30.871		DIBUTYLCHLORENDATE 4/6	LOL
9	28.43	381418	50959	VB	9385506	0.0406	27.094		DCB 3/6	
10	33.70	15907	362	BB	1000000	0.0159	0.000			
		919642	160180			0.1747	76.283			

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8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL
CONC. LEVEL: LOW
EXTRACTION DATE: 04/06/95
ANALYSIS DATE: 04/13/95

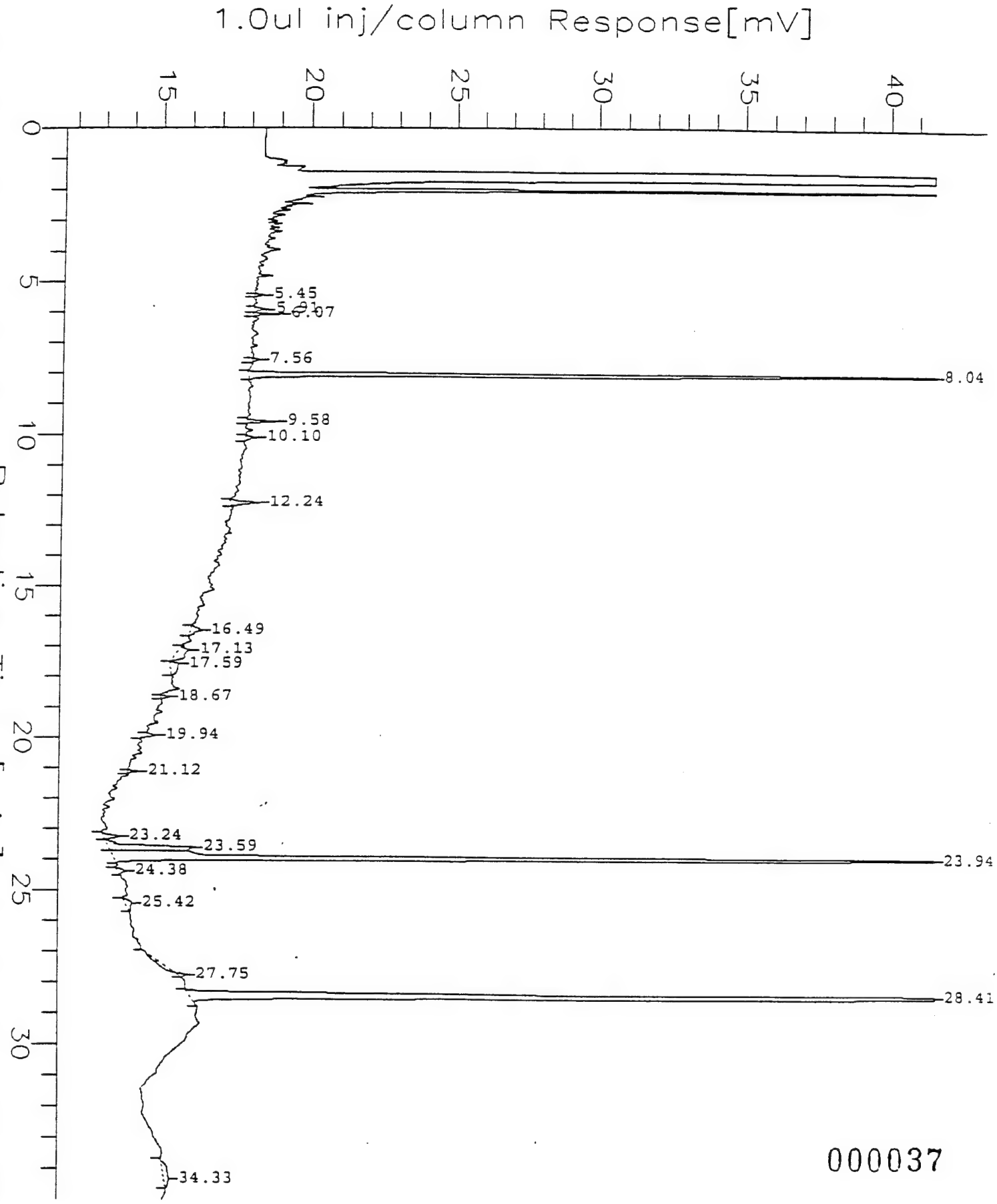
SAMPLE ID: 1-21-1
LAB SAMPLE ID. 2349011
DIL FACTOR: 1.00
% MOISTURE: 3

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	82 U
2	11104-28-2	Aroclor-1221	82 U
3	11141-16-5	Aroclor-1232	82 U
4	53469-21-9	Aroclor-1242	82 U
5	12672-29-6	Aroclor-1248	82 U
6	11097-69-1	Aroclor-1254	82 U
7	11096-82-5	Aroclor-1260	82 U

HP4-B DB-1701 0.53mm

Sample Name : 2349011
FileName : c:\2700\data4\424B004.raw
Method : hp4.ins
Start Time : 0.00 min End Time : 35.00 min
Scale Factor: -1 Plot Offset: 12 mV

Sample #: 1-21-1
Date : 4/13/95 16:41
Time of Injection: 4/13/95 16:05
Low Point : 11.54 mV High Point : 41.54 mV
Plot Scale: 30 mV



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Software Version: 3.2 <16C20>

Sample Name : 2349011 Time : 4/13/95 16:41

Sample Number: 1-21-1 Study : 4-6-95

Operator :

Instrument : 970-4:HP-4 Channel : B A/D mV Range : 1000

AutoSampler : HP 7673A

Rack/Vial : 0/0

Interface Serial # : 0187572363 Data Acquisition Time: 4/13/95 16:05

Delay Time : 0.00 min.

End Time : 35.00 min.

Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\424B004.raw

Result File : c:\2700\data4\424B004.rst

Instrument File: c:\2700\data\hp4.ins

Process File : c:\2700\data\402.prc

Sample File : c:\2700\data\423BN-60.smp

Sequence File : C:\2700\DATA4\424.seq

Inj. Volume : 1 ul Area Reject : 5000.00

Sample Amount : 30.000 Dilution Factor : 1.00

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PEST-PCB REPORT DB-1701

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HP4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

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Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
5	8.04	309665	79973	BB	7158474	0.0433	28.841		TCX 87%	
8	12.24	5600	984	BB	1000000	0.0056	0.000			
10	17.13	8112	405	BB	1000000	0.0081	0.000			
11	17.59	5474	297	BB	1000000	0.0055	0.000			
16	23.59	31066	2933	VV	1000000	0.0311	0.000			
17	23.94	275130	51726	VB	6073794	0.0453	30.200		DIBUTYLCHLORENDATE 45%	CON
21	28.41	350555	47892	BB	9385506	0.0374	24.902		DCB 75%	
22	34.33	6955	163	BB	1000000	0.0070	0.000			
		992557	184373			0.1831	83.942			

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NC=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY [illegible] REVIEWED BY [illegible]

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8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	WATER	SAMPLE ID:	FLDBK1
CONC. LEVEL:	LOW	LAB SAMPLE ID:	2349012
EXTRACTION DATE:	04/05/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/11/95	% MOISTURE:	NA

CMPD #	CAS Number	PCB COMPOUND	UG/L
1	12674-11-2	Aroclor-1016	0.50 U
2	11104-28-2	Aroclor-1221	0.50 U
3	11141-16-5	Aroclor-1232	0.50 U
4	53469-21-9	Aroclor-1242	0.50 U
5	12672-29-6	Aroclor-1248	0.50 U
6	11097-69-1	Aroclor-1254	0.50 U
7	11096-82-5	Aroclor-1260	0.50 U

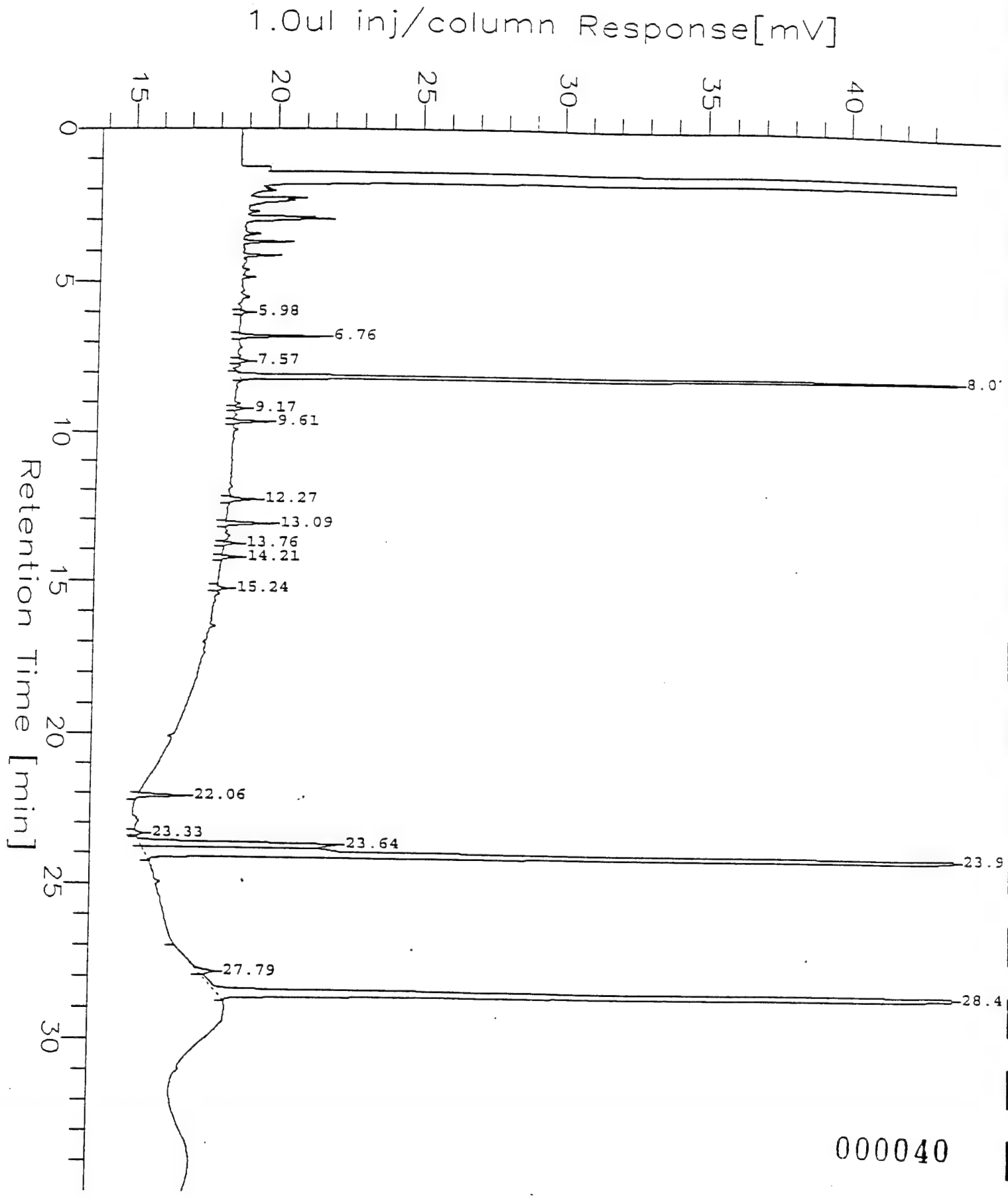
HP4-B DB-1701 0.53mm

Sample Name : 2349012
FileName : c:\2700\data4\423B019.raw
Method : hp4.ins
Start Time : 0.00 min
Scale Factor: -1

End Time : 35.00 min
Plot Offset: 14 mV

Sample #: FLDBK1
Date : 4/11/95 21:52
Time of Injection: 4/11/95 21:09
Low Point : 13.76 mV
Plot Scale: 30 mV

High Point : 43.76 mV



Software Version: 3.2 <16C20>
Sample Name : 2349012
Sample Number: FLDBK1
Operator : PATRICK

Time : 4/11/95 21:52
Study : 4-5-95

Instrument : 970-4-HP-4
AutoSampler : HP 7673A
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/11/95 21:09
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B019.raw
Result File : c:\2700\data4\423B019.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul
Sample Amount : 1000.0000

Area Reject : 5000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
2	6.76	11264	2940	BB	1000000	0.0113	0.000			
	8.07	311497	78535	BB	7158474	0.0435	0.435		TCX 87%	
	13.09	6861	1564	BB	1000000	0.0069	0.000			
	22.06	8058	1654	BB	1000000	0.0081	0.000			LLL
1	23.64	74427	6803	BV	1000000	0.0744	0.000			
.5	23.98	635788	115656	VB	6073794	0.1047	1.047		DIBUTYLCHLORENDATE 105%	
	27.79	5183	554	BV	1000000	0.0052	0.000			
	28.47	486225	64268	VB	9385506	0.0518	0.518		DCB 104%	
		1539303	271974			0.3058	2.000			

NC=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY: 12/13/95 REVIEWED BY:

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	WATER	SAMPLE ID:	EQPBK1
CONC. LEVEL:	LOW	LAB SAMPLE ID:	2349013
EXTRACTION DATE:	04/05/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/11/95	% MOISTURE:	NA

CMPD #	CAS Number	PCB COMPOUND	UG/L
1	12674-11-2	Aroclor-1016	0.50 U
2	11104-28-2	Aroclor-1221	0.50 U
3	11141-16-5	Aroclor-1232	0.50 U
4	53469-21-9	Aroclor-1242	0.50 U
5	12672-29-6	Aroclor-1248	0.50 U
6	11097-69-1	Aroclor-1254	0.50 U
7	11096-82-5	Aroclor-1260	0.50 U

HP4-B DB-1701 0.53mm

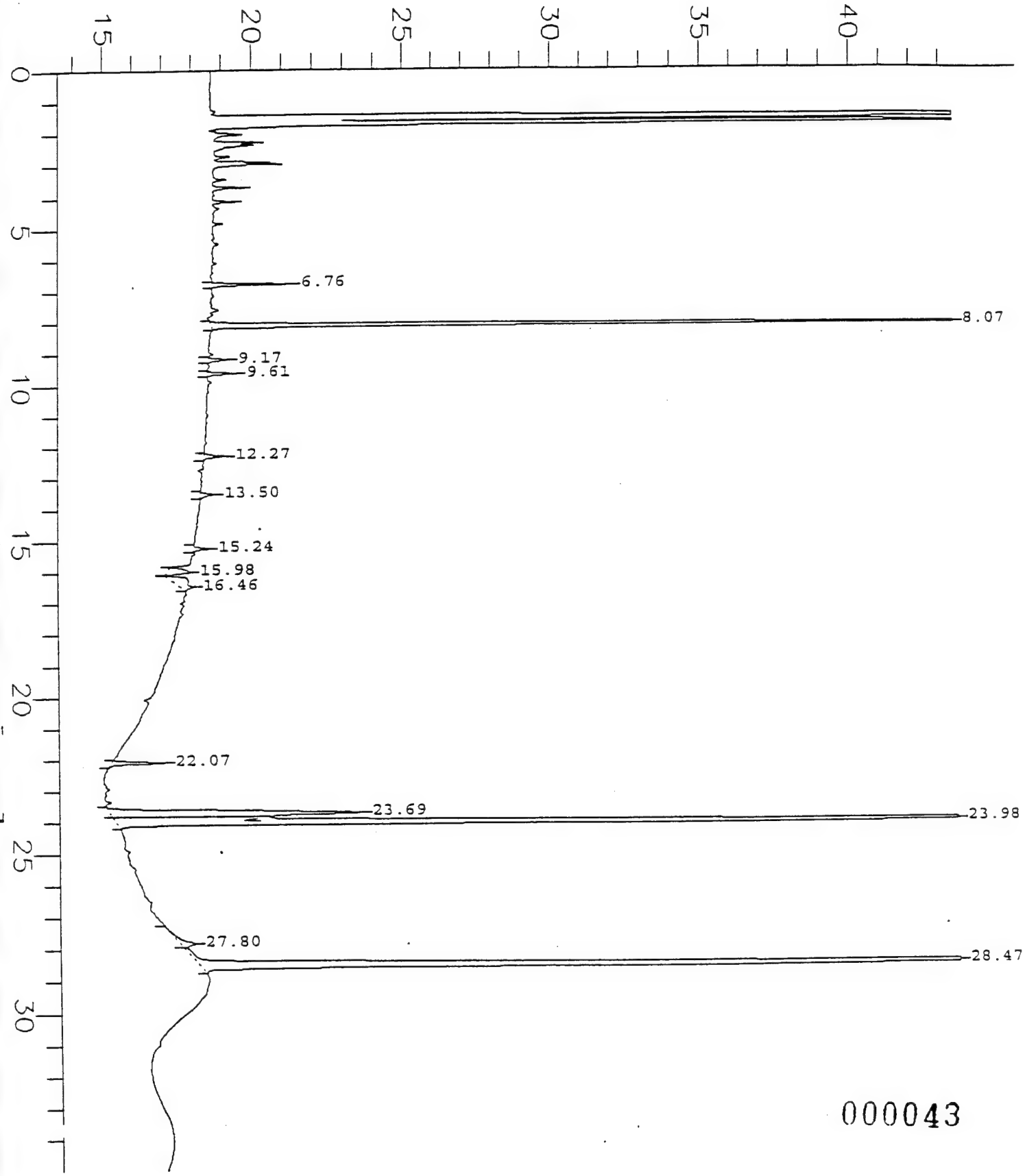
Sample Name : 2349013
FileName : c:\2700\data4\423B020.raw
Method : hp4.ins
Start Time : 0.00 min
Scale Factor: -1

End Time : 35.00 min
Plot Offset: 14 mV

Sample #: EQPBK1
Date : 4/11/95 22:36
Time of Injection: 4/11/95 21:54
Low Point : 13.49 mV
Plot Scale: 30 mV

High Point : 43.49 mV

1.0ul inj/column Response[mV]



Software Version: 3.2 <16C20>
Sample Name : 2349013 Time : 4/11/95 22:36
Sample Number: EQPBK1 Study : 4-5-95
Operator : PATRICK

Instrument : 970-4:HP-4 Channel : B A/D mV Range : 1000
AutoSampler : HP 7673A
Rack/Vial : 0/0

Interface Serial # : 0187572363 Data Acquisition Time: 4/11/95 21:54
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B020.raw
Result File : c:\2700\data4\423B020.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul Area Reject : 5000.00
Sample Amount : 1000.0000 Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

HP4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
1	6.76	9905	2617	BB	1000000	0.0099	0.000			
2	8.07	228369	57776	BB	7158474	0.0319	0.319		TCX 6.4%	
8	15.98	7042	762	BB	1000000	0.0070	0.000			
9	16.46	12021	433	BB	1000000	0.0120	0.000			
10	22.07	8825	1801	BB	1000000	0.0088	0.000			
11	23.69	87879	8326	BV	1000000	0.0879	0.000			CHL
12	23.98	486802	91754	VB	6073794	0.0802	0.802		DIBUTYLCHLORENDATE 80%	
13	27.80	5817	502	BV	1000000	0.0058	0.000			
14	28.47	398586	52258	VB	9385506	0.0425	0.425		DCB 85%	
		1245245	216229			0.2860	1.545			

NC=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY. [illegible] 4/14/95 REVIEWED BY....

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	1-23-1
CONC. LEVEL:	LOW	LAB SAMPLE ID:	2350501
EXTRACTION DATE:	04/07/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	4

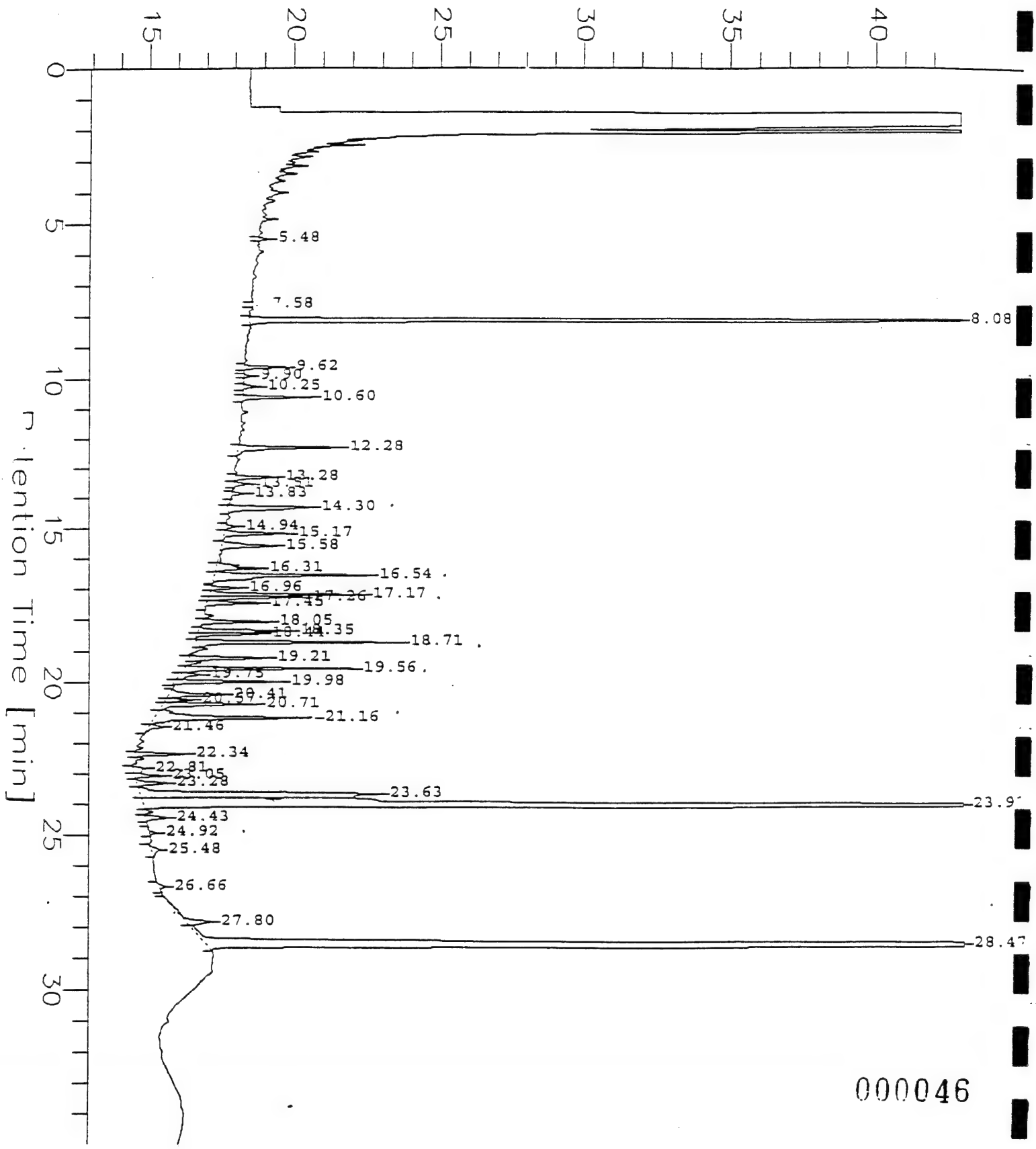
CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	83 U
2	11104-28-2	Aroclor-1221	83 U
3	11141-16-5	Aroclor-1232	83 U
4	53469-21-9	Aroclor-1242	83 U
5	12672-29-6	Aroclor-1248	83 U
6	11097-69-1	Aroclor-125[illegible]	49 J
7	11096-82-5	Aroclor-1260	83 U

HP4-B DB-1701 0.53mm

Sample Name : 2350501
FileName : c:\2700\data4\423B030.raw
Method : hp4.ins
Start Time : 0.00 min End Time : 35.00 min
Scale Factor: -1 Plot Offset: 13 mV

Sample #: 1-23-1 Page 1 of 1
Date : 4/12/95 06:04
Time of Injection: 4/12/95 05:18
Low Point : 12.91 mV High Point : 42.91 mV
Plot Scale: 30 mV

1.0ul inj/column Response[mV]



000046

ftware Version: 3.2 <16C20>
mple Name : 2350501
Sample Number: 1-23-1
perator : PATRICK

Time : 4/12/95 06:03
Study : 4-7-95

Instrument : 970-4-HP-4
AutoSampler : HP 7673A
ack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 05:18
elay Time : 0.00 min.
id Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

aw Data File : c:\2700\data4\423B030.raw
esult File : c:\2700\data4\423B030.rst
Instrument File: c:\2700\data\hp4.ins
rocess File : c:\2700\data\402.prc
mple File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

nj. Volume : 1 ul
Sample Amount : 30.0000

Area Reject : 5000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

HP4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

eak	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
	8.08	383751	97369	BB	7158474	0.0536	35.740		TCX 10%	
4	9.62	5616	1412	BB	1000000	0.0056	0.000			
7	10.60	11250	2379	BB	1000000	0.0113	0.000			
	12.28	18240	3466	BB	1000000	0.0182	0.000			
	13.28	6768	1390	BB	1000000	0.0068	0.000			
	14.30	20597	2869	BB	1000000	0.0206	0.000			
14	15.17	12133	2212	VV	1000000	0.0121	0.000			
15	15.58	13238	1882	VV	1000000	0.0132	0.000			
	16.31	10966	1498	VV	1000000	0.0110	0.000			
	16.54	34501	5255	VB	1000000	0.0345	0.000			
	17.17	25579	5209	VV	1000000	0.0256	0.000			
20	17.26	14380	3235	VV	1000000	0.0144	0.000			
21	17.45	9219	1860	VB	1000000	0.0092	0.000			
	18.05	11321	2304	BV	1000000	0.0113	0.000			
	18.35	15644	3187	VV	1000000	0.0156	0.000			
	18.44	10235	2214	VB	1000000	0.0102	0.000			
25	18.71	32519	6909	BB	1000000	0.0325	0.000			
26	19.21	13668	2622	BB	1000000	0.0137	0.000			
	19.56	28638	5782	BV	1000000	0.0286	0.000			
	19.98	17594	3702	VB	1000000	0.0176	0.000			
	20.41	10901	1912	BV	1000000	0.0109	0.000			
32	20.71	16289	3224	VV	1000000	0.0163	0.000			
33	21.16	38295	5522	VV	1000000	0.0383	0.000			
	22.34	8429	1770	BB	1000000	0.0084	0.000			
	23.28	6155	1035	VB	1000000	0.0062	0.000			
	23.63	87094	8177	BV	1000000	0.0871	0.000			
40	23.98	842152	153769	VB	6073794	0.1387	92.440		DIBUTYLCHLORENDATE 13%	
45	27.80	7943	858	BV	1000000	0.0079	0.000			
	28.47	661455	87276	VB	9385506	0.0705	46.987		DCB 14%	
		2374570	420294			0.7500	175.167			

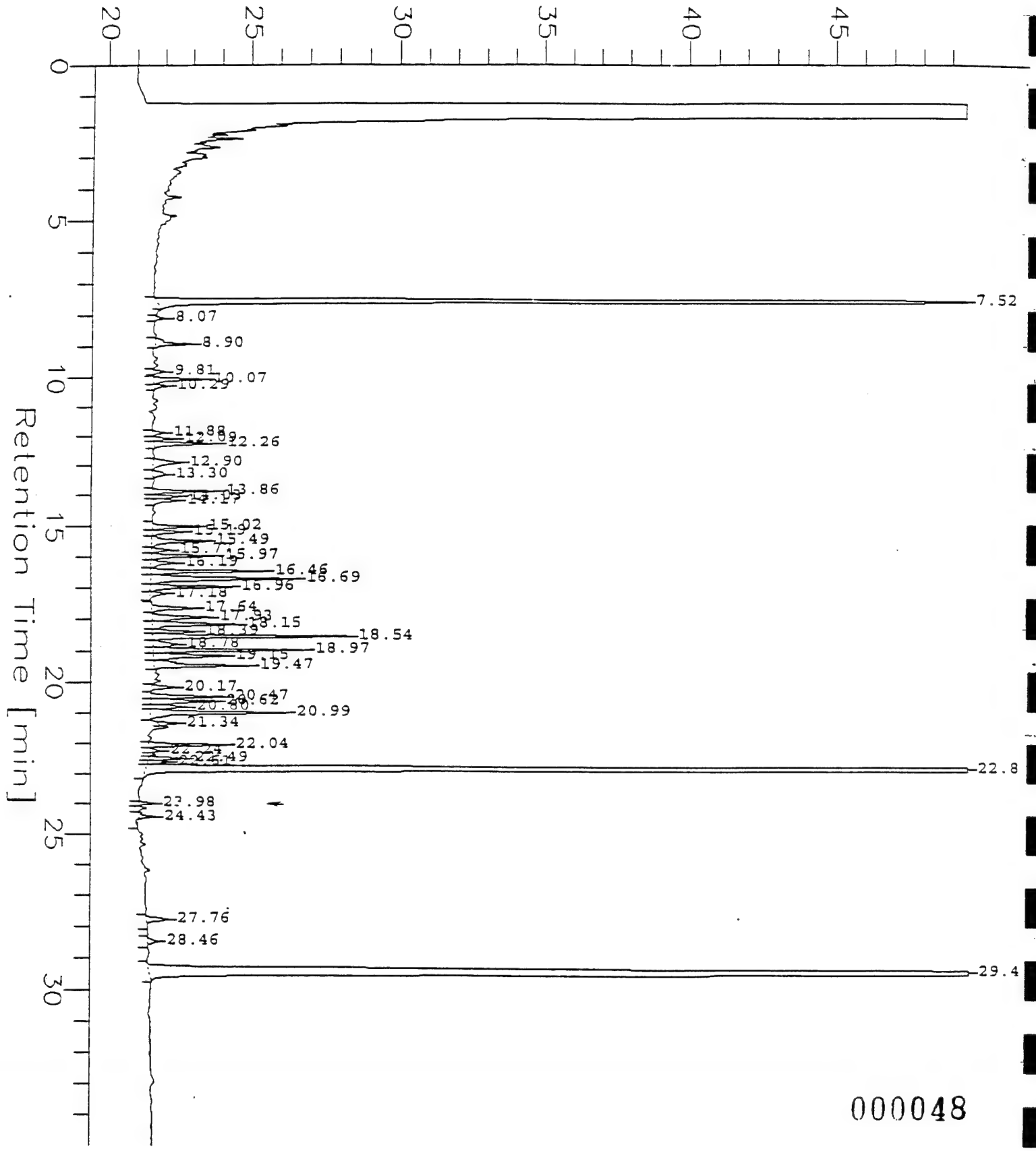
C=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY. 4/12/95 REVIEWED BY..

HP4-A DB608 0.53mm

Sample Name : 2350501
FileName : c:\2700\data4\423A030.raw
Method : hp4.ins
Start Time : 0.00 min End Time : 35.00 min
Scale Factor: -1 Plot Offset: 20 mV

Sample #: 1-23-1
Date : 4/12/95 05:58
Time of Injection: 4/12/95 05:18
Low Point : 19.47 mV High Point : 49.47 mV
Plot Scale: 30 mV

1.0ul inj/column Response[mV]



000048

Software Version: 3.2 <16C20>
Sample Name : 2350501
Sample Number: 1-23-1
Operator : PATRICK

Time : 4/12/95 05:57
Study : 4-7-95

Instrument : 970-4-HP-4
AutoSampler : HP 7673A
Rack/Vial : 0/0

Channel : A A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 05:18
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423A030.raw
Result File : c:\2700\data4\423A030.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\401.prc
Sample File : c:\2700\data\423AN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul
Sample Amount : 30.0000

Area Reject : 6000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-608

4-A DB608 30M X 0.53 MM ID 150 C TO 275 C

	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
1	7.52	456508	101221	BB	8548369	0.0534	35.604		TCX 10%	
3	8.90	7341	1270	BB	1000000	0.0073	0.000			
	10.07	9747	1762	BV	1000000	0.0098	0.000			
	12.26	11675	2215	VB	1000000	0.0117	0.000			
	12.90	8375	951	BB	1000000	0.0084	0.000			
12	13.86	10350	2228	BV	1000000	0.0104	0.000			
15	15.02	8510	1635	BV	1000000	0.0085	0.000			
	15.19	6385	1114	VV	1000000	0.0064	0.000			
	15.49	12872	1905	VV	1000000	0.0129	0.000			
	15.97	11955	2231	VV	1000000	0.0120	0.000			
21	16.46	21050	3952	VV	1000000	0.0211	0.000			
22	16.69	34290	5026	VV	1000000	0.0343	0.000			
	16.96	16063	2836	VV	1000000	0.0161	0.000			
	17.64	8584	1508	BV	1000000	0.0086	0.000			
	17.93	13275	2017	VV	1000000	0.0133	0.000			
[illegible]	18.15	16636	2960	VV	1000000	0.0166	0.000			
28	18.39	7865	1502	VV	1000000	0.0079	0.000			
	18.54	35034	6691	VV	1000000	0.0350	0.000			
	18.78	6586	840	VV	1000000	0.0066	0.000			
	18.97	27492	5223	VV	1000000	0.0275	0.000			
[illegible]	19.15	15349	2497	VV	1000000	0.0154	0.000			
33	19.47	20436	3316	VB	1000000	0.0204	0.000			
	20.47	13255	2586	BV	1000000	0.0133	0.000			
	20.62	13926	2274	VV	1000000	0.0139	0.000			
	20.80	7825	1266	VV	1000000	0.0078	0.000			
[illegible]	20.99	29371	4698	VB	1000000	0.0294	0.000			
40	22.04	13302	2642	BV	1000000	0.0133	0.000			
	22.81	858143	159851	VB	12933000	0.0664	44.238		DIBUTYLCHLORENDATE 66%	
	29.40	671899	77500	BB	8791037	0.0764	50.956		DCB 15%	
		2374098	405718			0.5837	130.797			

N =NOT CONFIRMED; CON=CONFIRMED; PREPARED BY: 4/17/95 REVIEWED BY.

Software Version: 3.2 <16C20>
Date: 4/13/95 10:23
Sample Name : 2350501
Data File : c:\2700\data4\423B030.raw Date: 4/12/95 05:18
Sequence File: C:\2700\DATA4\423.seq Cycle: 30 Channel : B
Instrument : 970-4:HP-4 Rack/Vial: 0/0 Operator: PATRICK
Sample Amount : 30.0000 Dilution Factor : 1.00

PCB WORKSHEET DB-1701

HP4B DB1701 30M X 0.53 MM ID 150 C,275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Component Name
3	8.08	383751	97369	6439013	0.0596	39.7	TCX
12	14.30	20597	2869	277148	0.0743	49.6	AR1254-A
17	16.54	34501	5255	570821	0.0604	40.3	AR1254-B
19	17.17	25579	5209	258561	0.0989	66.0	AR1254-C
25	18.71	32519	6909	602318	0.0540	36.0	AR1254-D
27	19.56	28638	5782	418490	0.0684	45.5	AR1254-E
33	21.16	38295	5522	597984	0.0640	42.7	AR1254-F
40	23.98	842152	153769	5705570	0.1476	98.4	DIBUTYLCHLORENDATE
46	28.47	661455	87276	9045258	0.0731	48.8	DCB
		2067488	369959		0.7005	467.0	

PREPARED BY. REVIEWED BY.

000050

oftware Version: 3.2 <16C20>
ate: 4/13/95 10:23
Sample Name : 2350501
ata File : c:\2700\data4\423A030.raw Date: 4/12/95 05:18
equence File: C:\2700\DATA4\423.seq Cycle: 30 Channel : A
Instrument : 970-4:HP-4 Rack/Vial: 0/0 Operator: PATRICK
ample Amount : 30.0000 Dilution Factor : 1.00

PCB WORKSHEET DB-608

P4A DB608 30M X 0.53 MM ID 150 C,275 C

k #	Ret Time [min]	Area [uV-sec]	Height [uV]	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Component Name
1	7.52	456508	101221	7821952	0.0584	38.9	TCX
12	13.86	10350	2228	239438	0.0432	28.8	AR1254-A
1	16.46	21050	3952	443123	0.0475	31.7	AR1254-B
2	16.69	34290	5026	534361	0.0642	42.8	AR1254-C
9	18.54	35034	6691	669103	0.0524	34.9	AR1254-D
-1	18.97	27492	5223	451140	0.0609	40.6	AR1254-E
33	19.47	20436	3316	377982	0.0541	36.1	AR1254-F
8	20.99	29371	4698	515204	0.0570	38.0	AR1254-G
4	22.81	858143	159851	6704691	0.1280	85.3	DIBUTYLCHLORENDATE
9	29.40	671899	77500	9133466	0.0736	49.1	DCB
		2164574	369706		0.6392	426.2	

COIN.

PREPARED BY. [illegible] REVIEWED BY. [illegible]

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	1-22-1
CONC. LEVEL:	LOW	LAB SAMPLE ID.	2350502
EXTRACTION DATE:	04/07/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	5

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	84 U
2	11104-28-2	Aroclor-1221	84 U
3	11141-16-5	Aroclor-1232	84 U
4	53469-21-9	Aroclor-1242	84 U
5	12672-29-6	Aroclor-1248	84 U
6	11097-69-1	Aroclor-1254	84 U
7	11096-82-5	Aroclor-1260	84 U

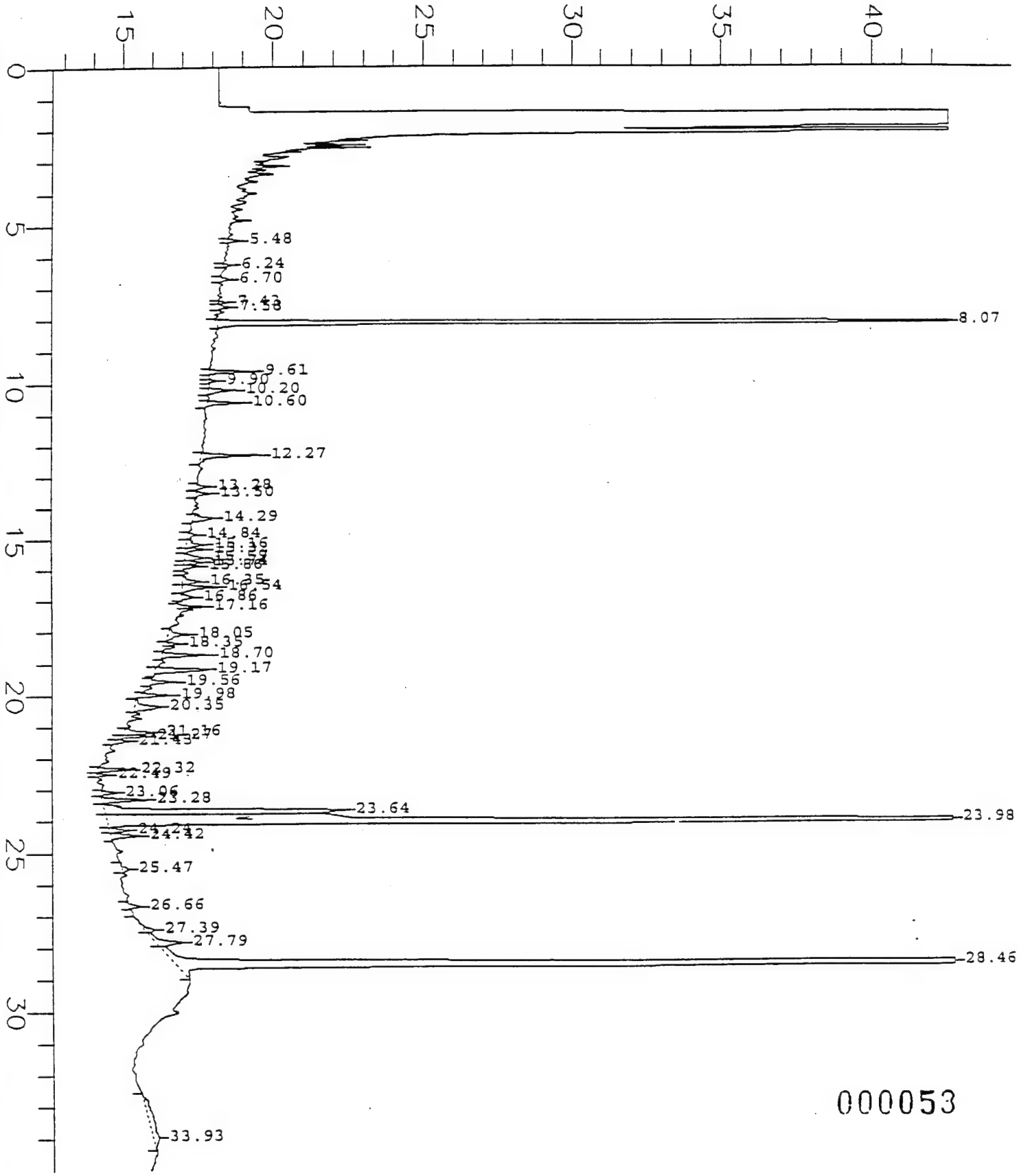
HP4-B DB-1701 0.53mm

mple Name : 2350502
ileName : c:\2700\data4\423B031.raw
ethod : hp4.ins
art Time : 0.00 min
ale Factor: -1

End Time : 35.00 min
Plot Offset: 13 mV

Sample #: 1-22-1
Date : 4/12/95 06:49
Time of Injection: 4/12/95 06:02
Low Point : 12.57 mV
Plot Scale: 30 mV

1.0ul inj/column Response[mV]



000053

Software Version: 3.2 <16C20>
Sample Name : 2350502 Time : 4/12/95 06:48
Sample Number: 1-22-1 Study : 4-7-95
Operator : PATRICK

Instrument : 970-~~4~~HP-4 Channel : B A/D mV Range : 1000
AutoSampler : HP 7673A
Rack/Vial : 0/0

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 06:02
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B031.raw
Result File : c:\2700\data4\423B031.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul Area Reject : 5000.00
Sample Amount : 30..000 Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

HP4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
6	8.07	418645	107372	BB	7158474	0.0585	38.990		TCX 117%	very low concentration
7	9.61	6074	1510	BB	1000000	0.0061	0.000			4 AR1254
10	10.60	5465	1182	BB	1000000	0.0055	0.000			
11	12.27	10393	1993	BB	1000000	0.0104	0.000			
22	16.54	7548	1182	VB	1000000	0.0076	0.000			
25	18.05	5168	685	BB	1000000	0.0052	0.000			
27	18.70	7586	1571	BB	1000000	0.0076	0.000			
28	19.17	11998	1716	BB	1000000	0.0120	0.000			
30	19.98	5011	1067	BB	1000000	0.0050	0.000			<DL
31	20.35	7697	837	BB	1000000	0.0077	0.000			
32	21.16	6089	1160	BV	1000000	0.0061	0.000			
35	22.32	5635	1135	BB	1000000	0.0056	0.000			
38	23.28	8623	1535	BV	1000000	0.0086	0.000			
39	23.64	75830	8023	VV	1000000	0.0758	0.000			
40	23.98	845750	155855	VV	6073794	0.1393	92.835		DIBUTYLCHLORENDATE 139%	
42	24.42	6246	988	VB	1000000	0.0063	0.000			
46	27.79	8508	871	VV	1000000	0.0085	0.000			
47	28.46	641888	83185	VB	9385506	0.0684	45.597		DCB 137%	
48	33.93	13769	179	BB	1000000	0.0138	0.000			
		2097924	372046			0.4578	177.422			

NC=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY 4/12/95 REVIEWED BY.

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	1-22-1D
CONC. LEVEL:	LOW	LAB SAMPLE ID:	2350503
EXTRACTION DATE:	04/07/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	6

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	85 U
2	11104-28-2	Aroclor-1221	85 U
3	11141-16-5	Aroclor-1232	85 U
4	53469-21-9	Aroclor-1242	85 U
5	12672-29-6	Aroclor-1248	85 U
6	11097-69-1	Aroclor-1254	85 U
7	11096-82-5	Aroclor-1260	85 U

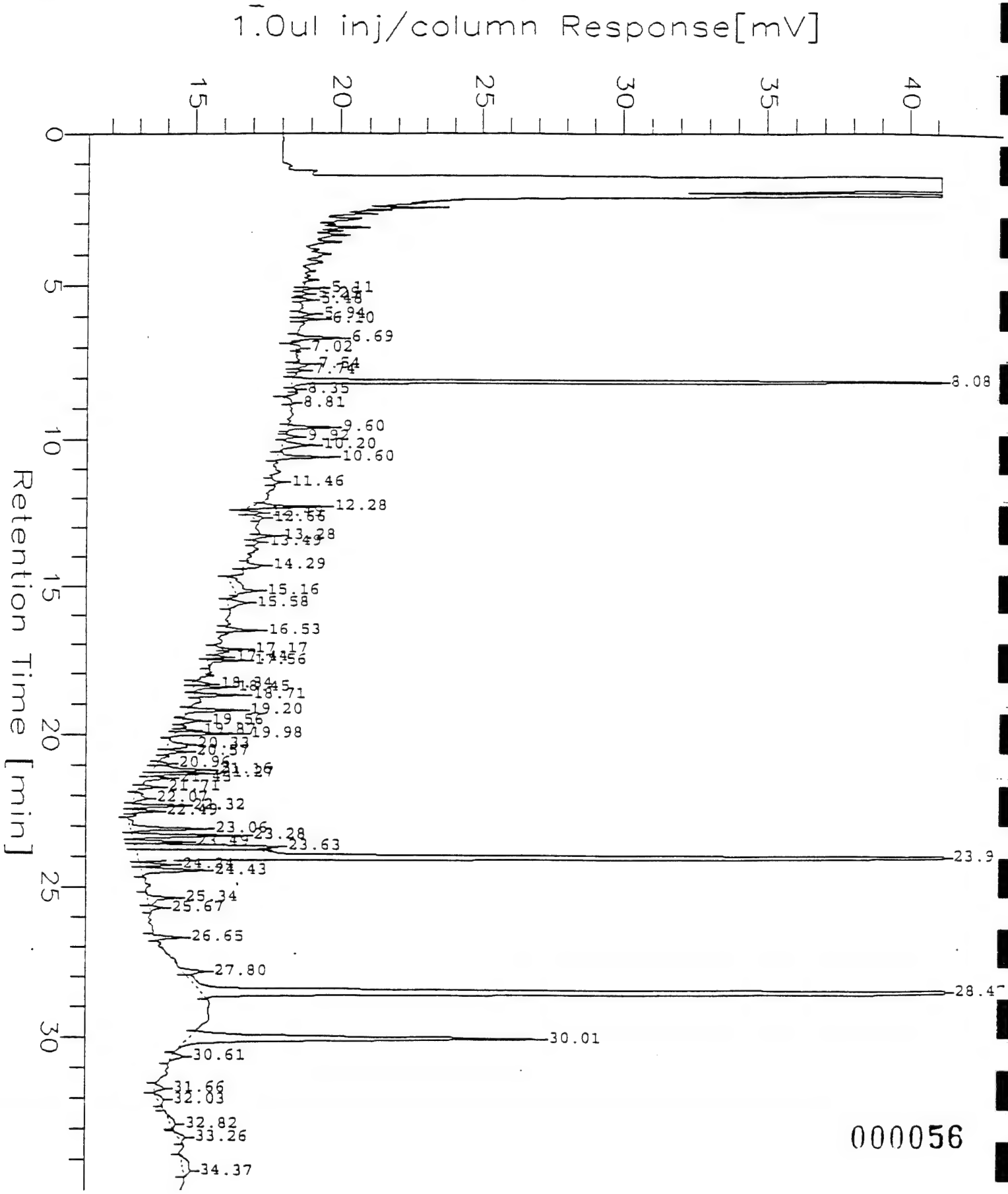
HP4-B DB-1701 0.53mm

Sample Name : 2350503
FileName : C:\2700\DATA4\423B033.raw
Method : hp4.ins
Start Time : 0.00 min
Scale Factor: -1

End Time : 35.00 min
Plot Offset: 11 mV

Sample #: 1-22-1D
Date : 4/13/95 10:55
Time of Injection: 4/12/95 10:34
Low Point : 11.13 mV
Plot Scale: 30 mV

High Point : 41.13 mV



000056

Software Version: 3.2 <16C20>
Sample Name : 2350503
Sample Number: 1-22-1D
Operator : PATRICK

Time : 4/12/95 11:09
Study : 4-7-95

Instrument : 970-4:HP-4
AutoSampler : HP 7673A
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 10:34
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B033.raw
Result File : c:\2700\data4\423B033.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul
Sample Amount : 30.0000

Area Reject : 5000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
6	6.69	6035	1474	BB	1000000	0.0060	0.000			
	8.08	314923	81448	BB	7158474	0.0440	29.330		TCX 88%	very low uncertainties
	9.60	7334	1517	BB	1000000	0.0073	0.000			
	10.20	8263	1081	VV	1000000	0.0083	0.000			
1	10.60	10258	1890	VB	1000000	0.0103	0.000			of ARO1660
18	12.28	14049	2603	BB	1000000	0.0141	0.000			
24	15.16	12154	772	BB	1000000	0.0122	0.000			
	15.58	6170	662	BB	1000000	0.0062	0.000			
	16.53	5805	1150	BB	1000000	0.0058	0.000			
2	17.56	5460	1266	BB	1000000	0.0055	0.000			
31	18.45	5520	1206	VB	1000000	0.0055	0.000			
32	18.71	7205	1664	BB	1000000	0.0072	0.000			
	19.20	9844	1844	BB	1000000	0.0098	0.000			
	19.98	14046	2325	BB	1000000	0.0141	0.000			
	20.33	7554	726	BV	1000000	0.0076	0.000			
39	21.16	12850	2049	VV	1000000	0.0129	0.000			
40	21.27	10468	2188	VV	1000000	0.0105	0.000			
	22.32	8542	1807	BB	1000000	0.0085	0.000			
	23.06	17975	2667	BV	1000000	0.0180	0.000			
	23.28	20750	3911	VV	1000000	0.0208	0.000			
48	23.49	8640	1905	VV	1000000	0.0086	0.000			
49	23.63	49906	5013	VV	1000000	0.0499	0.000			
	23.98	526655	97906	VV	6073794	0.0867	57.809		DIBUTYLCHLORENDATE 87%	
	24.24	5812	1179	VV	1000000	0.0058	0.000			
	24.43	15255	2254	VB	1000000	0.0153	0.000			
53	25.34	8296	1031	BV	1000000	0.0083	0.000			
55	26.65	5373	961	BB	1000000	0.0054	0.000			
	27.80	5651	737	BV	1000000	0.0057	0.000			
	28.47	425629	56254	VB	9385506	0.0454	30.235		DCB 91%	
	30.01	115660	12223	BB	1000000	0.1157	0.000			
64	34.37	7802	239	BB	1000000	0.0078	0.000			
		1679883	293950			0.5887	117.374			

000057

NC=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY. [illegible] REVIEWED BY. [illegible]

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	1-19-1
CONC. LEVEL:	LOW	LAB SAMPLE ID:	2350504
EXTRACTION DATE:	04/07/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	5

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	84 U
2	11104-28-2	Aroclor-1221	84 U
3	11141-16-5	Aroclor-1232	84 U
4	53469-21-9	Aroclor-1242	84 U
5	12672-29-6	Aroclor-1248	84 U
6	11097-69-1	Aroclor-1254	84 U
7	11096-82-5	Aroclor-1260	39 J

HP4-B DB-1701 0.53mm

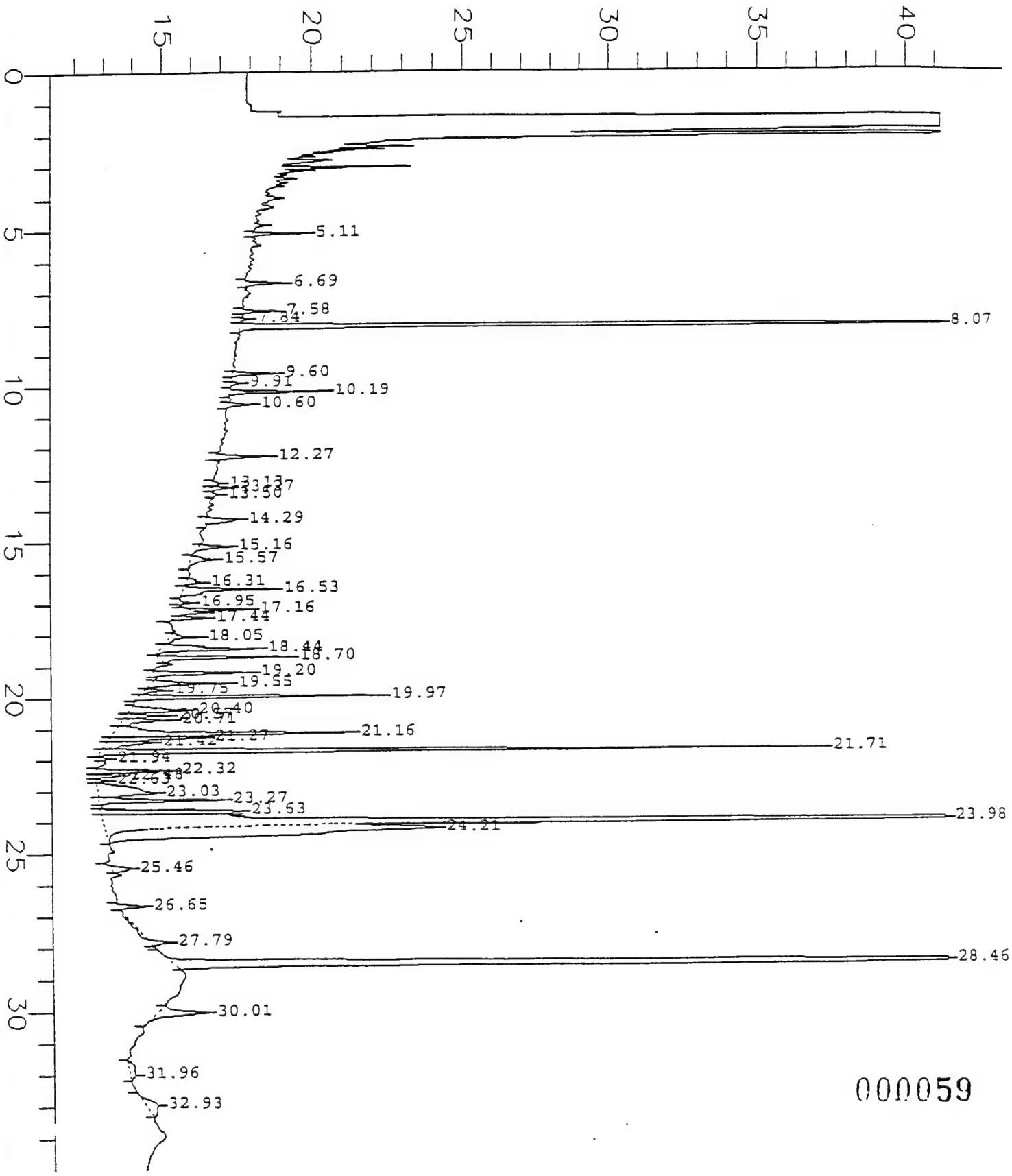
Sample Name : 2350504
FileName : c:\2700\data4\423B034.raw
Method : hp4.ins
Start Time : 0.00 min
Scale Factor: -1

End Time : 35.00 min
Plot Offset: 11 mV

Sample #: 1-19-1
Date : 4/13/95 10:56
Time of Injection: 4/12/95 11:19
Low Point : 11.18 mV
Plot Scale: 30 mV

/0

1.0ul inj/column Response[mV]



000059

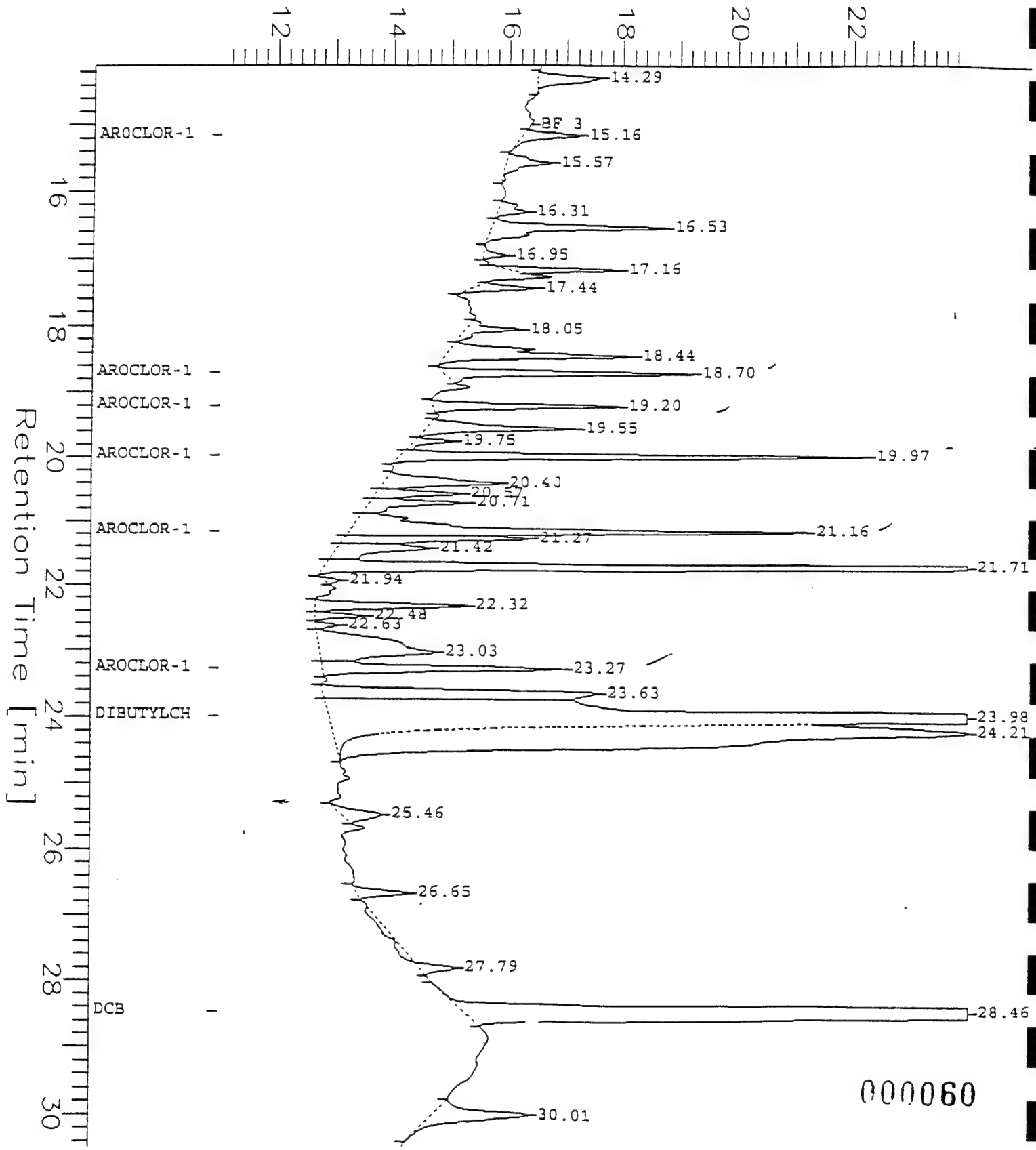
HP4-B DB-1701 0.53mm

Sample Name : 2350504
FileName : C:\2700\DATA4\423B034.raw
Method : hp4.ins
Start Time : 14.10 min End Time : 30.51 min
Scale Factor: 0 Plot Offset: 11 mV

Sample #: 1-19-1 Page 1 of 1
Date : 4/13/95 10:49
Time of Injection: 4/12/95 11:19
Low Point : 11.00 mV High Point : 23.98 mV
Plot Scale: 13 mV

RePlot

1.0ul inj/column Response[mV]



000060

ftware Version: 3.2 <16C20>

Sample Name : 2350504
ample Number: 1-19-1
erator : PATRICK

Time : 4/12/95 12:44
Study : 4-7-95

nstrument : 970-4-HP-4
toSampler : HP 7673A
ck/Vial : 0/0

Channel : B A/D mV Range : 1000

terface Serial # : 0187572363 Data Acquisition Time: 4/12/95 11:19
lay Time : 0.00 min.
End Time : 35.00 min.
ampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B034.raw
esult File : c:\2700\data4\423B034.rst
strument File: c:\2700\data\hp4.ins
ocess File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
quence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul
ample Amount : 30.0000

Area Reject : 5000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

:	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
1	5.11	5929	1715	BB	1000000	0.0059	0.000			
2	6.69	5178	1252	BB	1000000	0.0052	0.000			
	8.07	358867	91835	BB	7158474	0.0501	33.423		TCX 100%	
	9.60	6554	1424	BB	1000000	0.0066	0.000			
	10.19	13245	3156	BB	1000000	0.0132	0.000			
10	12.27	9188	1759	BB	1000000	0.0092	0.000			
4	14.29	8146	1089	BB	1000000	0.0082	0.000			
	15.16	5678	994	BB	1000000	0.0057	0.000			
	15.57	6229	787	BB	1000000	0.0062	0.000			
	16.53	19194	3048	VB	1000000	0.0192	0.000			
20	17.16	7176	1905	BB	1000000	0.0072	0.000			
1	17.44	5286	1108	BB	1000000	0.0053	0.000			
	18.05	5918	962	BV	1000000	0.0059	0.000			
	18.44	23262	3304	VB	1000000	0.0233	0.000			
	18.70	20268	4374	BB	1000000	0.0203	0.000			
25	19.20	15898	3260	BB	1000000	0.0159	0.000			
6	19.55	15616	2612	BB	1000000	0.0156	0.000			
	19.97	38981	8126	VB	1000000	0.0390	0.000			
	20.40	14407	2007	BV	1000000	0.0144	0.000			
	20.57	7907	1479	VV	1000000	0.0079	0.000			
31	20.71	10423	1694	VV	1000000	0.0104	0.000			
32	21.16	54555	7976	VV	1000000	0.0546	0.000			
	21.27	17259	3205	VV	1000000	0.0173	0.000			
	21.42	13557	1595	VV	1000000	0.0136	0.000			
	21.71	108520	24243	VB	1000000	0.1085	0.000			
37	22.32	13242	2597	BV	1000000	0.0132	0.000			
40	23.03	32535	1975	VV	1000000	0.0325	0.000			
	23.27	23291	4171	VB	1000000	0.0233	0.000			
	23.63	41373	4751	BV	1000000	0.0414	0.000			
	23.98	586647	99197	VE	6073794	0.0966	64.394		DIBUTYLCHLORENDATE 97%	
44	24.21	171252	9862	EB	1000000	0.1713	0.000			
45	25.46	5929	678	BB	1000000	0.0059	0.000			
	28.46	435260	59163	BB	9385506	0.0464	30.919		DCB 93%	
	30.01	16726	1676	BB	1000000	0.0167	0.000			
	31.96	5232	168	BB	1000000	0.0052	0.000			
51	32.93	9437	397	BB	1000000	0.0094	0.000			
		2138163	359543			0.9505	128.736			

000061

VC 4/12/95

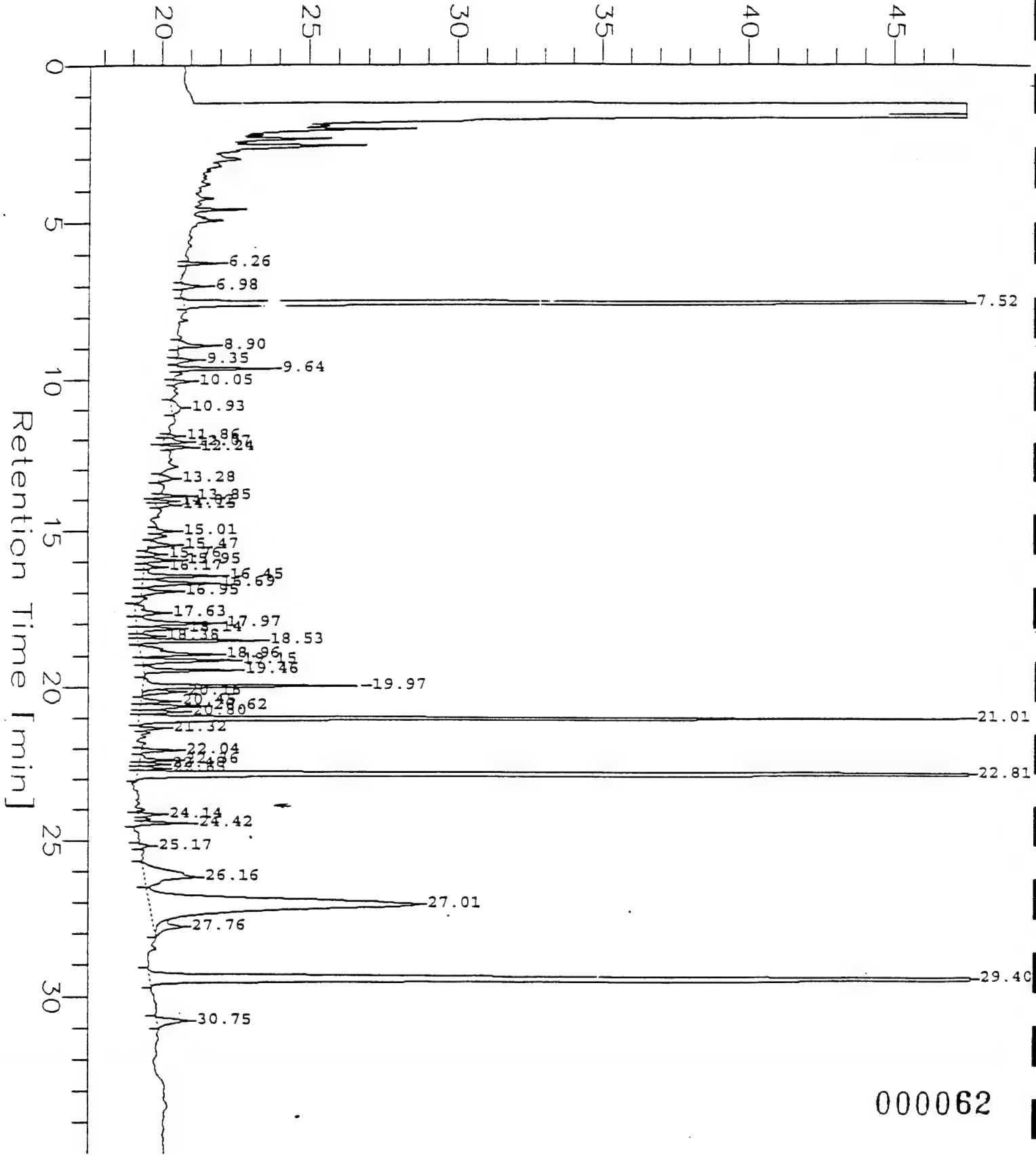
HP4-A DB608 0.53mm

Sample Name : 2350504
FileName : c:\2700\data4\423A034.raw
Method : hp4.ins
Start Time : 0.00 min End Time : 35.00 min
Scale Factor: -1 Plot Offset: 18 mV

Sample #: 1-19-1
Date : 4/12/95 12:43
Time of Injection: 4/12/95 11:19
Low Point : 17.48 mV High Point : 47.48 mV
Plot Scale: 30 mV

2°

1.0ul inj/column Response[mV]



000062

HP4-A DB608 0.53mm

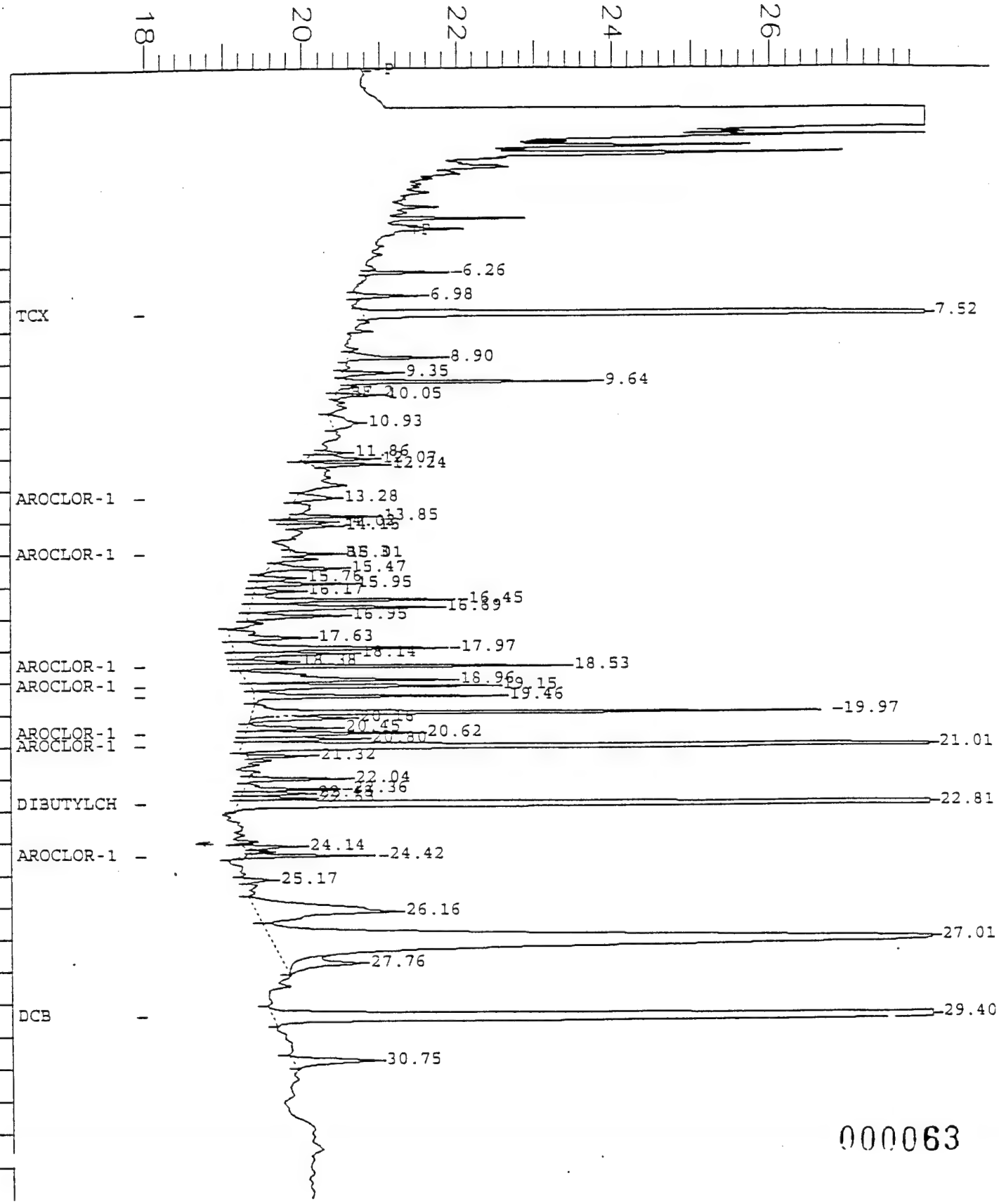
Sample Name : 2350504
FileName : C:\2700\DATA4\423A034.raw
Method : hp4.ins
Start Time : 0.01 min
Scale Factor: 0

End Time : 35.00 min
Plot Offset: 18 mV

Sample #: 1-19-1
Date : 4/13/95 11:35
Time of Injection: 4/12/95 11:19
Low Point : 18.00 mV
Plot Scale: 10 mV

Repeat

1.0ul inj/column Response[mV]



000063

Software Version: 3.2 <16C20>
Sample Name : 2350504 Time : 4/12/95 12:42
Sample Number: 1-19-1 Study : 4-7-95
Operator : PATRICK

Instrument : 970-4+HP-4 Channel : A A/D mV Range : 1000
AutoSampler : HP 7673A
Rack/Vial : 0/0

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 11:19
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423A034.raw
Result File : c:\2700\data4\423A034.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\401.prc
Sample File : c:\2700\data\423AN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul Area Reject : 6000.00
Sample Amount : 30.0000 Dilution Factor : 1.00

PEST-PCB REPORT DB-608

HP4-A DB608 30M X 0.53 MM ID 150 C TO 275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
3	7.52	412512	94738	BB	8548369	0.0483	32.172		TCX 97%	
4	8.90	6839	1191	BB	1000000	0.0068	0.000			
6	9.64	13937	3201	BB	1000000	0.0139	0.000			
17	15.47	6105	913	BB	1000000	0.0061	0.000			
19	15.95	6574	1135	VV	1000000	0.0066	0.000			
21	16.45	16204	2635	VV	1000000	0.0162	0.000			
22	16.69	17439	2387	VV	1000000	0.0174	0.000			
23	16.95	8103	1183	VB	1000000	0.0081	0.000			
24	17.63	9568	970	BV	1000000	0.0096	0.000			
25	17.97	20733	2774	VV	1000000	0.0207	0.000			
26	18.14	9178	1466	VV	1000000	0.0092	0.000			
28	18.53	21833	4176	VB	1000000	0.0218	0.000			
29	18.96	22860	2598	BV	1000000	0.0229	0.000			
30	19.15	17640	3097	VB	1000000	0.0176	0.000			
31	19.46	16848	3149	BB	1000000	0.0169	0.000			
32	19.97	40846	7406	BE	1000000	0.0409	0.000			
33	20.16	7293	1210	EV	1000000	0.0073	0.000			
35	20.62	14056	2180	VV	1000000	0.0141	0.000			
36	20.80	8428	1488	VV	1000000	0.0084	0.000			
37	21.01	156313	29198	VB	1000000	0.1563	0.000			
40	22.36	6540	1240	VV	1000000	0.0065	0.000			
43	22.81	466774	90091	VB	12933000	0.0361	24.062		DIBUTYLCHLORENDATE 36	
45	24.42	7748	1711	BB	1000000	0.0078	0.000			
47	26.16	35643	1756	BV	1000000	0.0356	0.000			
48	27.01	220323	9029	VE	1000000	0.2203	0.000			
49	27.76	10551	849	EB	1000000	0.0106	0.000			
50	29.40	401921	47514	BB	8791037	0.0457	30.481		DCB 91%	
51	30.75	10333	1056	BB	1000000	0.0103	0.000			
		1993144	320338			0.8420	86.716			

NC=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY. 4/13/95 REVIEWED BY.

oftware Version: 3.2 <16C20>
ate: 4/13/95 10:56
ample Name : 2350504
ata File : c:\2700\data4\423BC34.raw Date: 4/12/95 11:19
equence File: C:\2700\DATA4\423.seq Cycle: 34 Channel : B
Instrument : 970-4:HP-4 Rack/Vial: 0/0 Operator: PATRICK
ample Amount : 30.0000 Dilution Factor : 1.00

PCB WORKSHEET DB-1701

P4B DB1701 30M X 0.53 MM ID 150 C,275 C

WI=5%

ak #	Ret Time [min]	Area [uV-sec]	Height [uV]	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Component Name
5	8.07	358867	91835	6686064	0.0537	35.8	TCX
8	10.19	13245	3156	161010	0.0823	54.8	~~AROCLOR-1016~~
1	13.13	1345	231	618283	0.0022	1.5	AROCLOR-1016-3
5	15.16	5678	994	312547	0.0182	12.1	~~AROCLOR-1016-5~~
4	18.70	20268	4374	301904	0.0671	44.8	AROCLOR-1260
25	19.20	15898	3260	468975	0.0339	22.6	AROCLOR-1260-2
28	19.97	38981	8126	554281	0.0703	46.9	AROCLOR-1260-3
2	21.16	54555	7976	699411	0.0780	52.0	AROCLOR-1260-4
1	23.27	23291	4171	778075	0.0299	20.0	AROCLOR-1260-5
3	23.98	586647	99197	5649152	0.1039	69.2	DIBUTYLCHLORENDATE
48	28.46	435260	59163	9004643	0.0483	32.2	DCB
		1554036	282483		0.5878	391.9	

X= 47PPB
= 39PPB (DRY)

PREPARED BY. JC 4/13/95. REVIEWED BY. P.

Software Version: 3.2 <16C20>
Date: 4/13/95 10:24
Sample Name : 2350504
Data File : c:\2700\data4\423A034.raw Date: 4/12/95 11:19
Sequence File: C:\2700\DATA4\423.seq Cycle: 34 Channel : A
Instrument : 970-4-HP-4 Rack/Vial: 0/0 Operator: PATRICK
Sample Amount : 30.0000 Dilution Factor : 1.00

PCB WORKSHEET DB-608

HP4A DB608 30M X 0.53 MM ID 150 C,275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Component Name
3	7.52	412512	94738	8090921	0.0510	34.0	TCX
12	13.28	4215	479	277217	0.0152	10.1	~~AROCLOR-1016-4~~
16	15.01	2636	581	279871	0.0094	6.3	~~AROCLOR-1016-5~~
28	18.53	21833	4176	319055	0.0684	45.6	AROCLOR-1260
30	19.15	17640	3097	572189	0.0308	20.6	AROCLOR-1260-2
31	19.46	16848	3149	582291	0.0289	19.3	AROCLOR-1260-3
35	20.62	14056	2180	378134	0.0372	24.8	AROCLOR-1260-4
37	21.01	156313	29198	526463	0.2969	198.0	AROCLOR-1260-5
43	22.81	466774	90091	12287000	0.0380	25.3	DIBUTYLCHLORENDATE
45	24.42	7748	1711	423843	0.0183	12.2	AROCLOR-1260-6
50	29.40	401921	47514	8378933	0.0480	32.0	DCB
		1522497	276913		0.6421	428.1	

PREPARED BY... 4/13/95. REVIEWED BY..

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	1-19-2
CONC. LEVEL:	LOW	LAB SAMPLE ID:	2350505
EXTRACTION DATE:	04/07/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	6

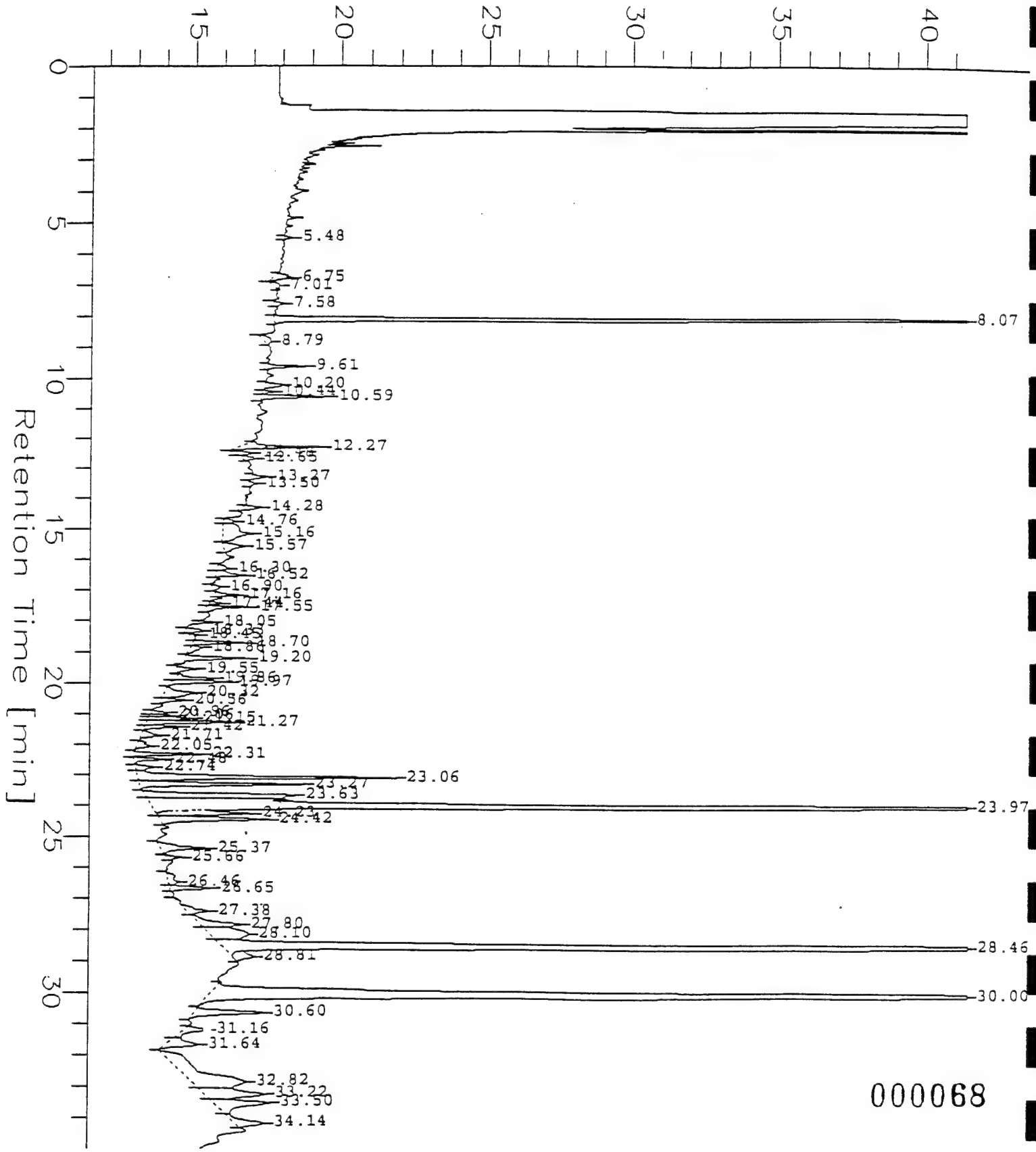
CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	85 U
2	11104-28-2	Aroclor-1221	85 U
3	11141-16-5	Aroclor-1232	85 U
4	53469-21-9	Aroclor-1242	85 U
5	12672-29-6	Aroclor-1248	85 U
6	11097-69-1	Aroclor-1254	85 U
7	11096-82-5	Aroclor-1260	85 U

HP4-B DB-1701 0.53mm

Sample Name : 2350505
FileName : C:\2700\DATA4\423B035.raw
Method : hp4.ins
Start Time : 0.00 min End Time : 35.00 min
Scale Factor: -1 Plot Offset: 11 mV

Sample #: 1-19-2 Page 1 of 1
Date : 4/13/95 10:56
Time of Injection: 4/12/95 12:03
Low Point : 11.39 mV High Point : 41.39 mV
Plot Scale: 30 mV

1.0ul inj/column Response[mV]



000068

Software Version: 3.2 <16C20>
Sample Name : 2350505
Sample Number: 1-19-2
Operator : PATRICK

Time : 4/12/95 12:46
Study : 4-7-95

Instrument : 970-4-HP-4
AutoSampler : HP 7673A
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 12:03
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B035.raw
Result File : c:\2700\data4\423B035.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul
Sample Amount : 30.0000

Area Reject : 5000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

HP4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

Peak	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
2	6.75	5143	693	BB	1000000	0.0051	0.000			
	8.07	361321	93437	BB	7158474	0.0505	33.651		TCX 101%	very low concentration
	9.61	5265	1296	BB	1000000	0.0053	0.000			
	10.59	11300	2316	VB	1000000	0.0113	0.000			
	12.27	16257	2908	BB	1000000	0.0163	0.000			4/12/95
18	15.16	19651	1035	VB	1000000	0.0197	0.000			
19	15.57	6814	739	BB	1000000	0.0068	0.000			
	16.52	6770	1057	VB	1000000	0.0068	0.000			
	17.55	6728	1515	BB	1000000	0.0067	0.000			
	18.45	5919	581	VV	1000000	0.0059	0.000			
29	18.70	13272	2321	VV	1000000	0.0133	0.000			
30	18.86	10900	862	VV	1000000	0.0109	0.000			
	19.20	18372	2561	VV	1000000	0.0184	0.000			
	19.55	6836	874	VV	1000000	0.0068	0.000			
	19.86	12067	1605	VV	1000000	0.0121	0.000			
34	19.97	11880	2156	VV	1000000	0.0119	0.000			
35	20.32	12135	1170	VV	1000000	0.0121	0.000			
	21.15	11328	1585	VV	1000000	0.0113	0.000			
	21.27	15242	3095	VV	1000000	0.0152	0.000			
	21.42	5982	1259	VV	1000000	0.0060	0.000			
43	22.31	11202	2397	BB	1000000	0.0112	0.000			
44	22.48	5339	1099	BV	1000000	0.0053	0.000			
	23.06	61262	8848	VV	1000000	0.0613	0.000			
	23.27	35076	5692	VB	1000000	0.0351	0.000			
	23.63	48220	5219	BV	1000000	0.0482	0.000			
49	23.97	569693	102966	VE	6073794	0.0938	62.533		DIBUTYLCHLORENDATE 0%	
50	24.23	22462	3280	EV	1000000	0.0225	0.000			
	24.42	29116	3806	VB	1000000	0.0291	0.000			
	25.37	13630	1656	BB	1000000	0.0136	0.000			
	26.46	5536	326	BV	1000000	0.0055	0.000			
55	26.65	8296	1431	VB	1000000	0.0083	0.000			
56	27.38	7252	725	BV	1000000	0.0073	0.000			
57	27.80	13995	1394	VV	1000000	0.0140	0.000			
	28.10	26911	1335	VV	1000000	0.0269	0.000			
	28.46	457058	61088	VE	9385506	0.0487	32.467		DCB 47%	
60	28.81	7970	717	EB	1000000	0.0080	0.000			
61	30.00	497001	53384	BB	1000000	0.4970	0.000			
62	30.60	20655	2393	BB	1000000	0.0207	0.000			
	31.16	8280	788	BV	1000000	0.0083	0.000			
	31.64	12888	1124	VB	1000000	0.0129	0.000			

000069

65	32.82	65774	1874	BV	1000000	0.0658	0.000
66	33.22	30704	2072	VV	1000000	0.0307	0.000
67	33.50	25441	1933	VV	1000000	0.0254	0.000
68	34.14	11548	1000	VB	1000000	0.0116	0.000
		2558531	389614			1.3634	128.652

NC=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY. REVIEWED BY.

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

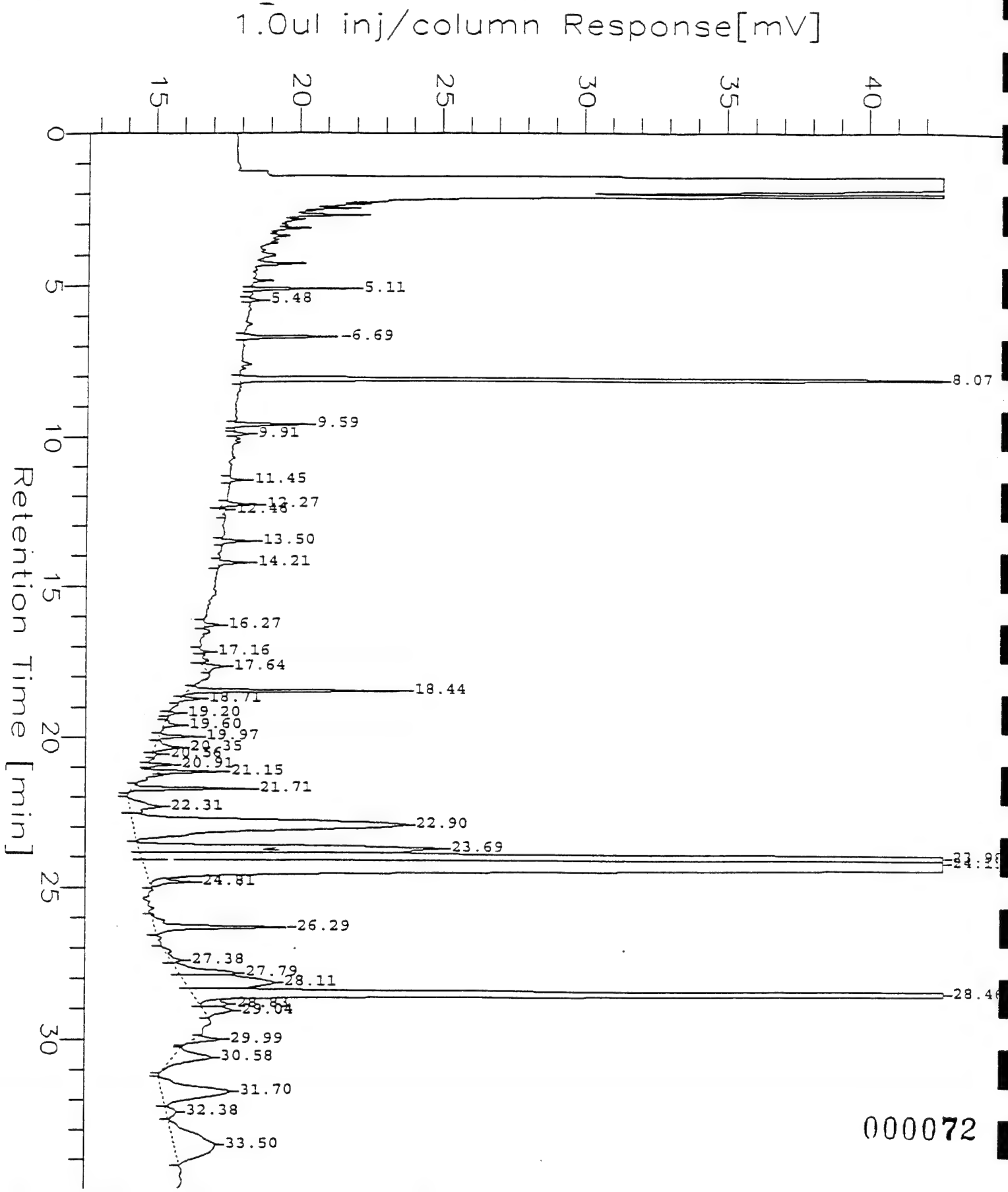
SAMPLE MATRIX:	SOIL	SAMPLE ID:	1-24-1
CONC. LEVEL:	LOW	LAB SAMPLE ID:	2350506
EXTRACTION DATE:	04/07/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	4

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	83 U
2	11104-28-2	Aroclor-1221	83 U
3	11141-16-5	Aroclor-1232	83 U
4	53469-21-9	Aroclor-1242	83 U
5	12672-29-6	Aroclor-1248	83 U
6	11097-69-1	Aroclor-1254	83 U
7	11096-82-5	Aroclor-1260	83 U

HP4-B DB-1701 0.53mm

Sample Name : 2350506
FileName : c:\2700\data4\423B036.raw
Method : hp4.ins
Start Time : 0.00 min End Time : 35.00 min
Scale Factor: -1 Plot Offset: 13 mV

Sample #: 1-24-1
Date : 4/12/95 13:23
Time of Injection: 4/12/95 12:48
Low Point : 12.58 mV High Point : 42.58 mV
Plot Scale: 30 mV



Software Version: 3.2 <16C20>
Sample Name : 2350506
Sample Number: 1-24-1
Operator : PATRICK

Time : 4/12/95 13:23
Study : 4-7-95

Instrument : 970-4-HP-4
AutoSampler : HP 7673A
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 12:48
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B036.raw
Result File : c:\2700\data4\423B036.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul
Sample Amount : 30.0000

Area Reject : 5000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

#	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
	5.11	12142	3557	BB	1000000	0.0121	0.000			
	6.69	13527	3370	BB	1000000	0.0135	0.000			
	8.07	423557	108494	BB	7158474	0.0592	39.448		TCX 118%	
	9.59	12234	2512	BB	1000000	0.0122	0.000			
8	12.27	6164	1204	BB	1000000	0.0062	0.000			
0	13.50	5011	1078	BB	1000000	0.0050	0.000			
	14.21	5085	1022	BB	1000000	0.0051	0.000			
	17.64	5596	728	BB	1000000	0.0056	0.000			
	18.44	35800	7564	BB	1000000	0.0358	0.000			
19	19.97	6329	1306	VV	1000000	0.0063	0.000			
20	20.35	8743	914	VB	1000000	0.0087	0.000			
	21.15	10184	2307	BB	1000000	0.0102	0.000			
	21.71	19165	4141	BB	1000000	0.0192	0.000			
	22.31	16301	1122	BV	1000000	0.0163	0.000			
26	22.90	226323	9498	VB	1000000	0.2263	0.000			
27	23.69	137876	10554	BV	1000000	0.1379	0.000			
	23.98	1200174	197685	VV	6073794	0.1976	131.739		DIBUTYLCHLORENDATE ~~118%~~ (I) SEB	
	24.15	1313558	78291	VE	1000000	1.3136	0.000			
	24.81	10679	1434	EB	1000000	0.0107	0.000			
31	26.29	37756	4628	BB	1000000	0.0378	0.000			
32	27.38	5817	411	BV	1000000	0.0058	0.000			
	27.79	24509	1986	VV	1000000	0.0245	0.000			
	28.11	65325	3099	VV	1000000	0.0653	0.000			
	28.46	664608	86838	VE	9385506	0.0708	47.211		DCB 102%	
36	28.83	9863	886	EV	1000000	0.0099	0.000			
37	29.04	12394	958	VB	1000000	0.0124	0.000			
8	29.99	7284	921	BB	1000000	0.0073	0.000			
	30.58	24180	1326	BB	1000000	0.0242	0.000			
	31.70	60389	2356	BV	1000000	0.0604	0.000			
41	32.38	5427	344	VV	1000000	0.0054	0.000			
42	33.50	71790	1425	VB	1000000	0.0718	0.000			
		4457789	541957			2.4970	218.397			

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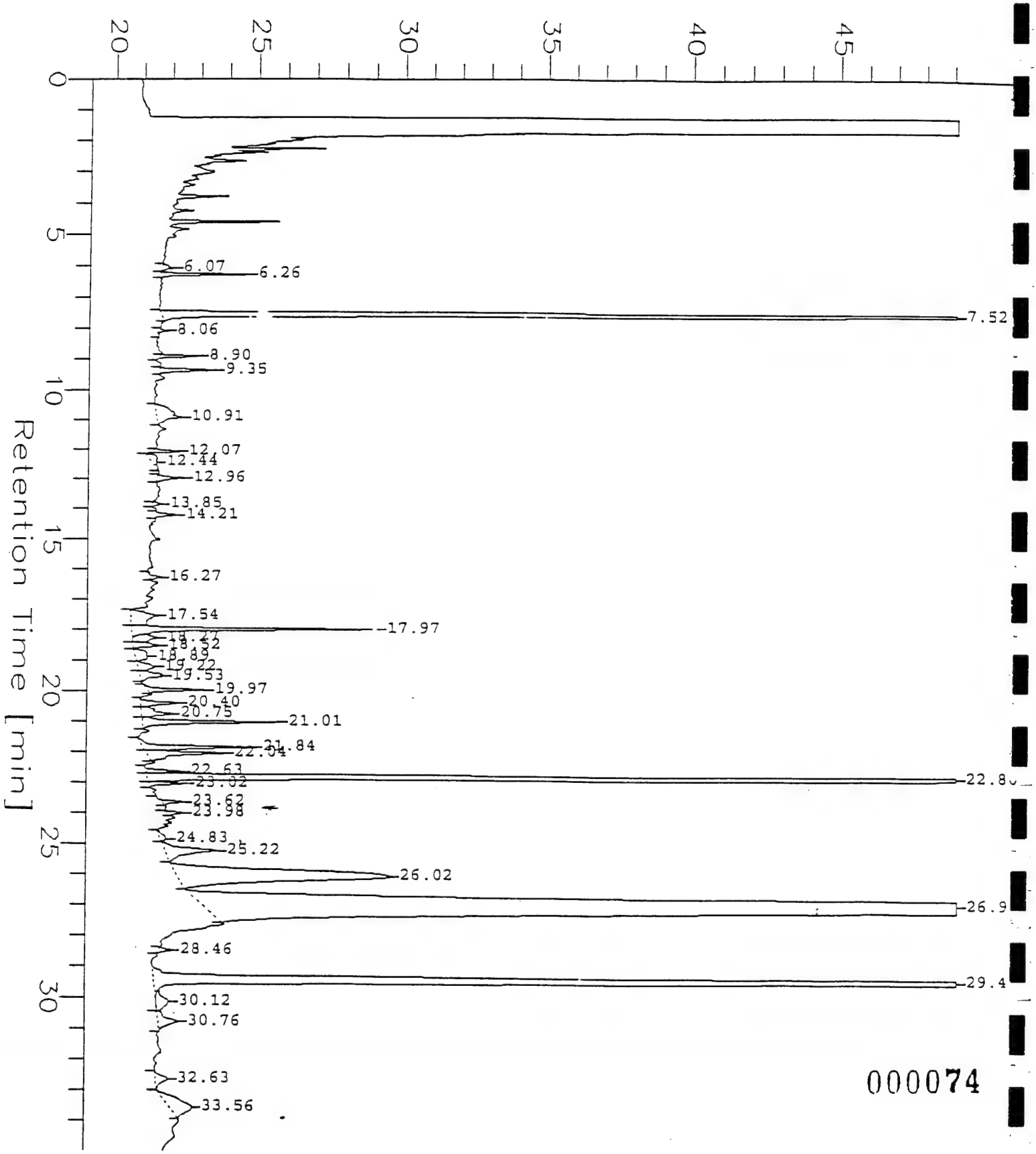
HP4-A DB608 0.53mm

Sample Name : 2350506
FileName : c:\2700\data4\423A036.raw
Method : hp4.ins
Start Time : 0.00 min End Time : 35.00 min
Scale Factor: -1 Plot Offset: 19 mV

Sample #: 1-24-1
Date : 4/13/95 12:19
Time of Injection: 4/12/95 12:48
Low Point : 19.11 mV High Point : 49.11 mV
Plot Scale: 30 mV

1.0ul inj/column Response[mV]



000074

Software Version: 3.2 <16C20>
Sample Name : 2350506 Time : 4/13/95 12:21
Sample Number: 1-24-1 Study : 4-7-95
Operator : PATRICK

Instrument : 970-4-HP-4 Channel : A A/D mV Range : 1000
AutoSampler : HP 7673A
Rack/Vial : 0/0

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 12:48
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423A036.raw
Result File : c:\2700\data4\423A036.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\401.prc
Sample File : c:\2700\data\423AN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul Area Reject : 6000.00
Sample Amount : 30.0000 Dilution Factor : 1.00

PEST-PCB REPORT DB-608

4-A DB608 30M X 0.53 MM ID 150 C TO 275 C

	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
2	6.26	12362	3056	BB	1000000	0.0124	0.000			
	7.52	507046	115099	BB	8548369	0.0593	39.545		TCX	
	9.35	9906	1940	BB	1000000	0.0099	0.000			
	10.91	16888	879	BB	1000000	0.0169	0.000			
	17.54	18201	962	BV	1000000	0.0182	0.000			
15	17.97	50822	8461	VB	1000000	0.0508	0.000			
	18.27	9046	853	BV	1000000	0.0091	0.000			
	18.52	7432	931	VB	1000000	0.0074	7.405			
	18.89	8885	451	BV	1000000	0.0089	13.131			
	19.22	7104	606	VV	1000000	0.0071	8.278			
10	19.53	8866	782	VB	1000000	0.0089	15.638			
	19.97	10137	2002	BB	1000000	0.0101	0.000			
	20.40	8430	1312	BV	1000000	0.0084	0.000			
	20.75	11575	1026	VV	1000000	0.0116	0.000			
	21.01	29592	4719	VB	1000000	0.0296	38.293			
35	21.84	26087	3831	BV	1000000	0.0261	0.000			
	22.04	21215	2722	VB	1000000	0.0212	0.000			
	22.63	6329	1235	BV	1000000	0.0063	0.000			
	22.80	813019	157512	VV	12933001	0.0629	41.911		DIBUTYLCHLORENDATE	26% (1°)
	23.02	6322	1297	VB	1000000	0.0063	0.000			
33	25.22	23896	1819	BB	1000000	0.0239	0.000			
	26.02	173416	7271	BB	1000000	0.1734	0.000			
	26.93	1511936	67638	BB	1000000	1.5119	0.000			
	29.40	606264	70232	BB	8791037	0.0690	45.978		DCB	
	30.12	9978	451	BV	1000000	0.0100	0.000			
39	30.76	11105	704	VB	1000000	0.0111	0.000			
	32.63	6255	428	BB	1000000	0.0063	0.000			
	33.56	24020	763	BB	1000000	0.0240	0.000			
		3956134	458981			2.2210	210.179			

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8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	WATER	SAMPLE ID:	EQPBK2
CONC. LEVEL:	LOW	LAB SAMPLE ID:	2350507
EXTRACTION DATE:	04/07/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	NA

CMPD #	CAS Number	PCB COMPOUND	UG/L
1	12674-11-2	Aroclor-1016	0.50 U
2	11104-28-2	Aroclor-1221	0.50 U
3	11141-16-5	Aroclor-1232	0.50 U
4	53469-21-9	Aroclor-1242	0.50 U
5	12672-29-6	Aroclor-1248	0.50 U
6	11097-69-1	Aroclor-1254	0.50 U
7	11096-82-5	Aroclor-1260	0.50 U

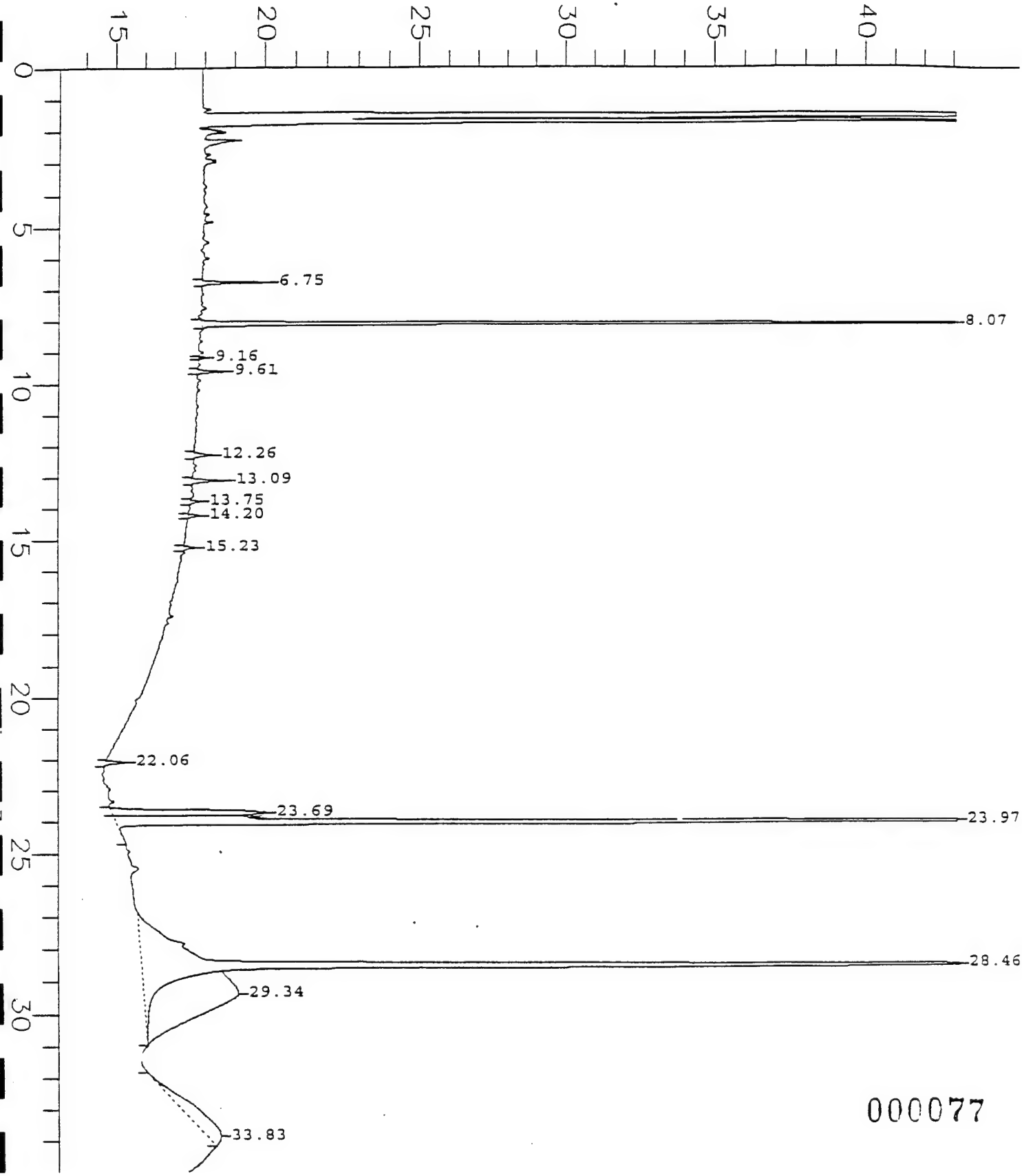
HP4-B DB-1701 0.53mm

Sample Name : 2350507
ileName : c:\2700\data4\423B041.raw
hod : hp4.ins
t Time : 0.00 min
Scale Factor: -1

End Time : 35.00 min
Plot Offset: 13 mV

Sample #: EQPBLK2 4/14/95
Date : 4/12/95 17:06
Time of Injection: 4/12/95 16:31
Low Point : 13.07 mV
Plot Scale: 30 mV

1.0ul inj/column Response[mV]



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Software Version: 3.2 <16C20>

Sample Name : 2350507 4/14/95
Sample Number: EQPBLK2
Operator : PATRICK

Time : 4/12/95 17:06
Study : 4-7-95

Instrument : 970-4-HP-4
AutoSampler : HP 7673A
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 16:31
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B041.raw
Result File : c:\2700\data4\423B041.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul
Sample Amount : 100.0000

Area Reject : 5000.00
Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

HP4-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

Peak #	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
1	6.75	8474	2216	BB	1000000	0.0085	0.000			
2	8.07	215575	55721	BB	7158474	0.0301	0.301		TCX 60%	
11	23.69	55291	5172	BV	1000000	0.0553	0.000			
12	23.97	454948	85532	VB	6073794	0.0749	0.749		DIBUTYLCHLORENDATE 75%	LIL
13	28.46	446742	37983	BE	9385506	0.0476	0.476		DCB 95-97	
14	29.34	213666	2816	EB	1000000	0.2137	0.000			
15	33.83	53593	455	BB	1000000	0.0536	0.000			
		1448289	189894			0.4836	1.526			

NC=NOT CONFIRMED; CON=CONFIRMED; PREPARED BY: [illegible] 4/13/95 REVIEWED BY: [illegible]

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

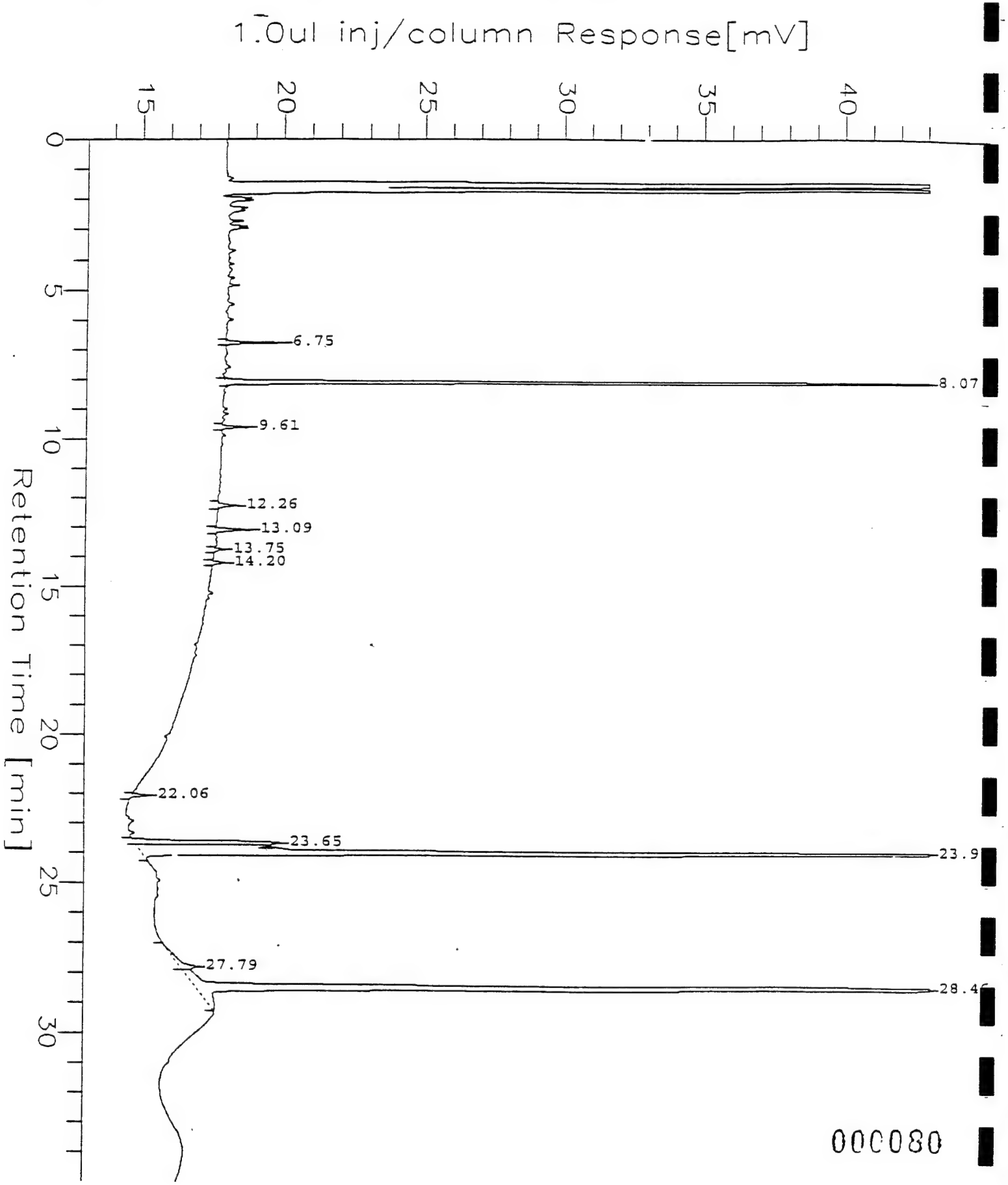
SAMPLE MATRIX:	WATER	SAMPLE ID:	FLDBK2
CONC. LEVEL:	LOW	LAB SAMPLE ID:	2350508
EXTRACTION DATE:	04/07/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	NA

CMPD #	CAS Number	PCB COMPOUND	UG/L
1	12674-11-2	Aroclor-1016	0.50 U
2	11104-28-2	Aroclor-1221	0.50 U
3	11141-16-5	Aroclor-1232	0.50 U
4	53469-21-9	Aroclor-1242	0.50 U
5	12672-29-6	Aroclor-1248	0.50 U
6	11097-69-1	Aroclor-1254	0.50 U
7	11096-82-5	Aroclor-1260	0.50 U

HP4-B DB-1701 0.53mm

Sample Name : 2350508
FileName : c:\2700\data4\423B042.raw
Method : hp4.ins
Start Time : 0.00 min End Time : 35.00 min
Scale Factor: -1 Plot Offset: 13 mV

Sample #: FLDBK2
Date : 4/12/95 17:50
Time of Injection: 4/12/95 17:16
Low Point : 13.02 mV High Point : 43.02 mV
Plot Scale: 30 mV



Software Version: 3.2 <16C20>

Sample Name : 2350508 | Time : 4/12/95 17:50
Sample Number: FLDBK2 | Study : 4-7-95
Operator : PATRICK

Instrument : 970-4:HP-4 | Channel : B | A/D mV Range : 1000
AutoSampler : HP 7673A
Rack/Vial : 0/0

Interface Serial # : 0187572363 Data Acquisition Time: 4/12/95 17:16
Delay Time : 0.00 min.
End Time : 35.00 min.
Sampling Rate : 2.1739 pts/sec

Raw Data File : c:\2700\data4\423B042.raw
Result File : c:\2700\data4\423B042.rst
Instrument File: c:\2700\data\hp4.ins
Process File : c:\2700\data\402.prc
Sample File : c:\2700\data\423BN-60.smp
Sequence File : C:\2700\DATA4\423.seq

Inj. Volume : 1 ul | Area Reject : 5000.00
Sample Amount : 1000.0000 | Dilution Factor : 1.00

PEST-PCB REPORT DB-1701

HP-B DB-1701 30M X 0.53 MM ID 150 C, TO 275 C

	Ret Time [min]	Area [uV-sec]	Height [uV]	BL	Area/NG CAL FACT.	Amount ng/ul	Amount ppb(Wet)	Amount (ppb Dry)	Component Name	Comments NC/CON/<DL
	6.75	7473	2004	BB	1000000	0.0075	0.000			
	8.07	248221	64480	BB	7158474	0.0347	0.347		TCX 69%	
	13.09	5527	1246	BB	1000000	0.0055	0.000			
	23.65	46743	5146	BV	1000000	0.0467	0.000			
1	23.97	520785	96251	VB	6073794	0.0857	0.857		DIBUTYLCHLORENDATE 86%	
	27.79	8307	554	BV	1000000	0.0083	0.000			
	28.46	386218	49123	VB	9385506	0.0412	0.412		DCB 82%	
		1223274	218804			0.2296	1.616			

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8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	WATER	SAMPLE ID:	PBLK11
CONC. LEVEL:	LOW	LAB SAMPLE ID:	PWB0405B
EXTRACTION DATE:	04/05/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/11/95	% MOISTURE:	NA

CMPD #	CAS Number	PCB COMPOUND	UG/L
1	12674-11-2	Aroclor-1016	0.50 U
2	11104-28-2	Aroclor-1221	0.50 U
3	11141-16-5	Aroclor-1232	0.50 U
4	53469-21-9	Aroclor-1242	0.50 U
5	12672-29-6	Aroclor-1248	0.50 U
6	11097-69-1	Aroclor-1254	0.50 U
7	11096-82-5	Aroclor-1260	0.50 U

80802CB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	PBLK12
CONC. LEVEL:	LOW	LAB SAMPLE ID:	PSB0406A
EXTRACTION DATE:	04/06/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/11/95	% MOISTURE:	NA

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	80 U
2	11104-28-2	Aroclor-1221	80 U
3	11141-16-5	Aroclor-1232	80 U
4	53469-21-9	Aroclor-1242	80 U
5	12672-29-6	Aroclor-1248	80 U
6	11097-69-1	Aroclor-1254	80 U
7	11096-82-5	Aroclor-1260	80 U

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	PBLK13
CONC. LEVEL:	LOW	LAB SAMPLE ID:	PSB0407B
EXTRACTION DATE:	04/07/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	NA

CMPD #	CAS Number	PCB COMPOUND	UG/KG (DRY BASIS)
1	12674-11-2	Aroclor-1016	80 U
2	11104-28-2	Aroclor-1221	80 U
3	11141-16-5	Aroclor-1232	80 U
4	53469-21-9	Aroclor-1242	80 U
5	12672-29-6	Aroclor-1248	80 U
6	11097-69-1	Aroclor-1254	80 U
7	11096-82-5	Aroclor-1260	80 U

8080PCB - FORM 1

NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	WATER	SAMPLE ID:	PBLK14
CONC. LEVEL:	LOW	LAB SAMPLE ID:	PWB0407B
EXTRACTION DATE:	04/07/95	DIL FACTOR:	1.00
ANALYSIS DATE:	04/12/95	% MOISTURE:	NA

CMPD #	CAS Number	PCB COMPOUND	UG/L
1	12674-11-2	Aroclor-1016	0.50 U
2	11104-28-2	Aroclor-1221	0.50 U
3	11141-16-5	Aroclor-1232	0.50 U
4	53469-21-9	Aroclor-1242	0.50 U
5	12672-29-6	Aroclor-1248	0.50 U
6	11097-69-1	Aroclor-12[illegible]	0.50 U
7	11096-82-5	Aroclor-1260	0.50 U

2 D

NYTEST ENVIRONMENTAL INC.

PCB SURROGATE RECOVERY

LOGIN # : 23490, 23505

MATRIX : WATER

		<<<<<<<<<<<<< PCB >>>>>>>>>>>>>			
	SAMPLE ID	TCX % RECOVERY	DBC % RECOVERY	DCB % RECOVERY	SURR. OUT
01	FLDBK1	87 OK	105 OK	104 OK	0
02	EQPBK1	64 OK	80 OK	85 OK	0
03	EQPBK2	60 OK	75 OK	95 OK	0
04	FLDBK2	69 OK	86 OK	82 OK	0
05	PBLK11	98 OK	109 OK	106 OK	0
06	PBLK14	92 OK	99 OK	96 OK	0
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					

		LIMITS
Tetrachloroxylene	(TCX)	60 - 150
Dibutylchlorendate	(DBC)	24 - 154
Decachlorobiphenyl	(DCB)	60 - 150

* RECOVERY OUTSIDE ADVISORY QC LIMITS

I MATRIX INTERFERENCE

: D

NYTEST ENVIRONMENTAL INC.

PCB SURROGATE RECOVERY

LOGIN # : 23490, 23505

MATRIX : SOIL

	SAMPLE ID	TCX % RECOVERY	DBC % RECOVERY	DCB % RECOVERY	SURR. OUT
		<<<<<<<<<<<<< PCB		>>>>>>>>>>>>>	
01	1-16-1	68 OK	40 OK	86 OK	0
02	1-16-D	74 OK	62 OK	94 OK	0
03	1-16-2	98 OK	62 OK	96 OK	0
04	1-17-1	83 OK	66 OK	96 OK	0
05	1-17-2	57 *	113 OK	81 OK	1
06	1-18-1	97 OK	74 OK	100 OK	0
07	1-18-2	84 OK	49 OK	76 OK	0
08	1-20-1	55 *	46 OK	81 OK	1
09	1-21-1	87 OK	45 OK	75 OK	0
10	1-23-1	107 OK	139 OK	141 OK	0
11	1-22-1	117 OK	139 OK	137 OK	0
12	1-22-1D	88 OK	87 OK	91 OK	0
13	1-19-1	100 OK	97 OK	93 OK	0
14	1-19-2	101 OK	94 OK	97 OK	0
15	1-24-1	118 OK	126 OK	142 OK	0
16	1-17-1MS	63 OK	69 OK	99 OK	0
17	1-17-1MSD	89 OK	58 OK	88 OK	0
18	PBLK12	61 OK	74 OK	74 OK	0
19	PBLK13	91 OK	58 OK	102 OK	0
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					

		LIMITS
Tetrachloroxylene	(TCX)	60 - 150
Dibutylchlorendate	(DBC)	20 - 150
Decachlorobiphenyl	(DCB)	60 - 150

* RECOVERY OUTSIDE ADVISORY QC LIMITS

I MATRIX INTERFERENCE

PCB - FORM 3

NYTEST ENVIRONMENTAL INC.

PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LOGIN # : 23490, 23505

MATRIX: SOIL

	COMPOUND	CONC SPIKE ADDED (ppb)	SAMPLE RESULT	CONC MS	% RECOVERY	CONC MSD	% RECOVERY	RPD	QC LIMITS RPD	QC LIMITS RECOVERY
SAMPLE ID										
1-17-1	PCB 1016	344	0	360	105 OK	373	108 OK	4 OK	23	10 - 230
NYTEST ID										
2349005	PCB 1260	344	0	411	119 OK	438	127 OK	6 OK	28	10 - 195
2349006										

OF PCB % REC OUTSIDE ADVISORY QC LIMITS: 0 OF 4

OF PCB RPD VALUES OUTSIDE ADVISORY QC LIMITS: 0 OF 2

PEST-PCB-HERB 2,4-DCPAA / DBC RT, SEQUENCE SUMMARY

NYTEST ENVIRONMENTAL — CONTRACT: operational test

INSTRUMENT ID: HP013 — GC COLUMN ID: DB-1701 0.53 mm

DATES of ANALYSIS: 04/6/95 TO 04/13/95

File Name	Sample Name	Sample Number	Date Of Injection	Time Of Injection	DIBUTYLCHLORENDATE Ret. Time	% D *
B019.rst	AR1660-1	AR1660-1	4/6/95	04:34	23.98	—
B020.rst	AR1660-2	AR1660-2	4/6/95	05:19	23.99	0.02
4 B021.rst	AR1660-3	AR1660-3	4/6/95	06:03	23.98	0
422B022.rst	AR1660-4	AR1660-4	4/6/95	06:48	23.98	0
B024.rst	AR1660-6	AR1660-6	4/6/95	08:17	23.98	0
B025.rst	AR1221-3	AR1221-3	4/6/95	09:02	23.97	0.02
B026.rst	AR1232-3	AR1232-3	4/6/95	09:46	23.97	0.02
4 B027.rst	AR1242-3	AR1242-3	4/6/95	10:53	23.95	0.13
422B028.rst	AR1248-3	AR1248-3	4/6/95	11:37	23.94	0.17
B029.rst	AR1254-3	AR1254-3	4/6/95	12:22	23.94	0.17
B012.rst	AR 1660-3		4/11/95	11:48	23.92	0.25
b018.rst	PWB0405B	• PBLK11	4/11/95	20:25	23.98	0
4 b019.rst	2349012	FLDBK1	4/11/95	21:09	23.98	0
423b020.rst	2349013	EQPBK1	4/11/95	21:54	23.98	0
b021.rst	PSB0406A	• PBLK12	4/11/95	22:38	23.98	0
~~b022.rst~~	~~PSB0406~~ NA	~~MSB~~	~~4/11/95~~	~~23:22~~	~~23.98~~	~~0~~ NA
b025.rst	AR1660-3	AR1660-3	4/12/95	01:35	23.98	0
42 b026.rst	AR1242-3	AR1242-3	4/12/95	02:20	23.98	0
423b027.rst	AR1248-3	AR1248-3	4/12/95	03:04	23.98	0
b028.rst	AR1254-3	AR1254-3	4/12/95	03:49	23.98	0
b029.rst	PSB0407B	• PBLK13	4/12/95	04:33	23.98	0
b030.rst	2350501	1-23-1	4/12/95	05:18	23.98	0
42 b031.rst	2350502	1-22-1	4/12/95	06:02	23.98	0
423b032.rst	2349001	1-16-1	4/12/95	09:50	23.99	0.02
b033.rst	2350503	1-22-1D	4/12/95	10:34	23.98	0
b034.rst	2350504	1-19-1	4/12/95	11:19	23.98	0
b035.rst	2350505	1-19-2	4/12/95	12:03	23.97	0.02
42 b036.rst	2350506	1-24-1	4/12/95	12:48	23.98	0
42 b039.rst	AR1660-3	AR1660-3	4/12/95	15:02	23.97	0.02
423b040.rst	PWB0407B	• PBLK14	4/12/95	15:46	23.97	0.02
b041.rst	2350507	EQPBLK2	4/12/95	16:31	23.97	0.02
042.rst	2350508	FLDBK2	4/12/95	17:16	23.97	0.02
043.rst	2349002	1-16-D	4/12/95	18:00	23.96	0.04
42 044.rst	2349003	1-16-2	4/12/95	18:45	23.96	0.04
423b045.rst	2349004	1-17-1	4/12/95	19:29	23.95	0.13
b046.rst	2349005	1-17-1MS	4/12/95	20:14	23.95	0.13
047.rst	2349006	1-17-1MSD	4/12/95	20:58	23.96	0.13
048.rst	2349007	1-17-2	4/12/95	21:42	23.95	0.04
42 049.rst	2349008	1-18-1	4/12/95	22:27	23.95	0.13
423b052.rst	AR1660-3	AR1660-3	4/13/95	12:40	23.95	0.13
b001.rst	AR 1660-3	AR 1660-3	4/13/95	13:25	23.97	0.02
002.rst	2349009	1-18-2	4/13/95	14:09	23.95	0.13
003.rst	2349010	1-20-1	4/13/95	15:20	23.95	0.13
42 004.rst	2349011	1-21-1	4/13/95	16:05	23.94	0.17
424b014.rst	AR 1660-3	AR 1660-3	4/13/95	23:30	23.98	0

* Values outside of QC limits (2.0 for packed columns, 0.3% for capillary columns, 1.5% for wide bore capillary.)

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METALS DATA

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-16-1

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23490 QC Report No.23490

Matrix (soil/water): SOIL
Level (low/high) : LOW
Percent Solids : 95.0

Lab Sample ID: 349001
Date Received: 04/05/95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.6	U	N	P
7440-38-2	Arsenic	13.4		*	F
7440-41-7	Beryllium	0.22	B		P
7440-43-9	Cadmium	0.10	U		F
7440-47-3	Chromium	11.4		*	P
7440-50-8	Copper	18.7		N*	P
7439-92-1	Lead	4.7		N*	F
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	12.4			P
7782-49-2	Selenium	0.49	U	N	F
7440-22-4	Silver	0.57	U	N	P
7440-28-0	Thallium	0.49	U		F
7440-66-6	Zinc	21.7			P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-16-1

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-16-D

.b Name: NYTEST_ENV_INC._____ Contract: 9521649___

.b Code: NYTEST Login No.: 23490_ QC Report No.23490_

..atrix (soil/water): SOIL_
evel (low/high) : LOW
rcent Solids : _96.0

Lab Sample ID: 349002____
Date Received: 04/05/95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony_	4.8	B	N	P
7440-38-2	Arsenic__	14.9		*	F
7440-41-7	Beryllium	0.15	B		P
7440-43-9	Cadmium__	0.09	U		F
7440-47-3	Chromium_	12.6		*	P
7440-50-8	Copper___	20.8		N*	P
7439-92-1	Lead____	3.7		N*	F
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	14.0			P
7782-49-2	Selenium_	0.47	U	N	F
7440-22-4	Silver___	0.61	U	N	P
7440-28-0	Thallium_	0.47	U		F
7440-66-6	Zinc____	24.6			P

DES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-16-D

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-16-2

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23490 QC Report No.23490

Matrix (soil/water): SOIL
Level (low/high) : LOW
Percent Solids : 91.0

Lab Sample ID: 349003
Date Received: 04/05/95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	6.1		N	P
7440-38-2	Arsenic	12.8		*	F
7440-41-7	Beryllium	0.88			P
7440-43-9	Cadmium	0.24	B		F
7440-47-3	Chromium	16.7		*	P
7440-50-8	Copper	38.7		N*	P
7439-92-1	Lead	18.4		N*	F
7439-97-6	Mercury	0.12			CV
7440-02-0	Nickel	9.9			P
7782-49-2	Selenium	0.51	U	N	F
7440-22-4	Silver	0.58	U	N	P
7440-28-0	Thallium	0.51	U		F
7440-66-6	Zinc	49.5			P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-16-2

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-17-1

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23490 QC Report No.23490

Matrix (soil/water): SOIL Lab Sample ID: 349004

Level (low/high) : LOW Date Received: 04/05/95

Percent Solids : 97.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	5.1	B		P
7440-38-2	Arsenic	32.8			F
7440-41-7	Beryllium	0.21	B		P
7440-43-9	Cadmium	0.09	U		F
7440-47-3	Chromium	20.0			P
7440-50-8	Copper	20.0			P
7439-92-1	Lead	5.2			F
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	26.7			P
7782-49-2	Selenium	0.47	U		F
7440-22-4	Silver	0.56	U		P
7440-28-0	Thallium	0.47	U		F
7440-66-6	Zinc	37.6			P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-17-1

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-17-2

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23490 QC Report No.23490

Matrix (soil/water): SOIL
Level (low/high) : LOW
Percent Solids : 92.0

Lab Sample ID: 349007
Date Received: 04/05/95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	4.7	B	N	P
7440-38-2	Arsenic	33.0		*	F
7440-41-7	Beryllium	0.61			P
7440-43-9	Cadmium	0.10	U		F
7440-47-3	Chromium	14.7		*	P
7440-50-8	Copper	10.9		N*	P
7439-92-1	Lead	9.3		N*	F
7439-97-6	Mercury	0.12			CV
7440-02-0	Nickel	10.2			P
7782-49-2	Selenium	0.54		N	F
7440-22-4	Silver	0.60	U	N	P
7440-28-0	Thallium	0.51	U		F
7440-66-6	Zinc	31.3			P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-17-2

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-18-1

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23490 QC Report No.23490

Matrix (soil/water): SOIL
Level (low/high) : LOW
Percent Solids : 95.0

Lab Sample ID: 349008
Date Received: 04/05/95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.8	U	N	P
7440-38-2	Arsenic	13.8		*	F
7440-41-7	Beryllium	0.27	B		P
7440-43-9	Cadmium	0.13	B		F
7440-47-3	Chromium	15.1		*	P
7440-50-8	Copper	23.6		N*	P
7439-92-1	Lead	6.3		N*	F
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	17.7			P
7782-49-2	Selenium	0.46	U	N	F
7440-22-4	Silver	0.60	U	N	P
7440-28-0	Thallium	0.46	U		F
7440-66-6	Zinc	28.3			P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-18-1

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-18-2

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23490 QC Report No.23490

Matrix (soil/water): SOIL
Level (low/high) : LOW
Percent Solids : 92.0

Lab Sample ID: 349009
Date Received: 04/05/95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	7.5			P
7440-38-2	Arsenic	19.3		N	F
7440-41-7	Beryllium	0.24	B	*	P
7440-43-9	Cadmium	0.13	B		F
7440-47-3	Chromium	15.5			P
7440-50-8	Copper	52.2		*	P
7439-92-1	Lead	20.6		N*	F
7439-97-6	Mercury	0.11	U	N*	CV
7440-02-0	Nickel	19.0			P
7782-49-2	Selenium	0.52	U		F
7440-22-4	Silver	0.63	U	N	P
7440-28-0	Thallium	0.52	U	N	F
7440-66-6	Zinc	57.0			P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-18-2

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-20-1

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23490 QC Report No.23490

Matrix (soil/water): SOIL
Level (low/high) : LOW
Percent Solids : 90.0

Lab Sample ID: 349010
Date Received: 04/05/95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	5.6	B	N	P
7440-38-2	Arsenic	58.0		*	F
7440-41-7	Beryllium	0.40	B		P
7440-43-9	Cadmium	0.11	U		F
7440-47-3	Chromium	47.5		*	P
7440-50-8	Copper	24.9		N*	P
7439-92-1	Lead	10.1		N*	F
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	36.4			P
7782-49-2	Selenium	0.54	U	N	F
7440-22-4	Silver	0.63	U	N	P
7440-28-0	Thallium	0.54	U		F
7440-66-6	Zinc	41.5			P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-20-1

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-21-1

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23490 QC Report No.23490

Matrix (soil/water): SOIL
Level (low/high) : LOW
Percent Solids : 97.0

Lab Sample ID: 349011
Date Received: 04/05/95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.9	U	N	P
7440-38-2	Arsenic	59.4		*	F
7440-41-7	Beryllium	0.22	B		P
7440-43-9	Cadmium	0.17	B		F
7440-47-3	Chromium	16.5		*	P
7440-50-8	Copper	30.9		N*	P
7439-92-1	Lead	22.7		N*	F
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	21.1			P
7782-49-2	Selenium	0.51	U	N	F
7440-22-4	Silver	0.60	U	N	P
7440-28-0	Thallium	0.51	U		F
7440-66-6	Zinc	39.1			P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-21-1

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FLDBK1

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23490 QC Report No.23490

Matrix (soil/water): WATER
Level (low/high) : LOW
Percent Solids : 0.0

Lab Sample ID: 349012
Date Received: 04/05/95

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	38.0	U	N	P
7440-38-2	Arsenic	5.0	U	*	F
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		F
7440-47-3	Chromium	5.0	U	*	P
7440-50-8	Copper	4.0	U	N*	P
7439-92-1	Lead	3.0	U	N*	F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	27.0	U		P
7782-49-2	Selenium	5.0	U	N	F
7440-22-4	Silver	7.7	B	N	P
7440-28-0	Thallium	5.0	U		F
7440-66-6	Zinc	5.0	U		P

DES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
FLDBK1

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EQPBK1

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23490 QC Report No.23490

Matrix (soil/water): WATER
Level (low/high) : LOW
Percent Solids : 0.0

Lab Sample ID: 349013
Date Received: 04/05/95

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	47.8	B	N	P
7440-38-2	Arsenic	5.0	U	*	F
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		F
7440-47-3	Chromium	5.0	U	*	P
7440-50-8	Copper	4.0	U	N*	P
7439-92-1	Lead	3.0	U	N*	F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	27.0	U		P
7782-49-2	Selenium	5.0	U	N	F
7440-22-4	Silver	6.0	U	N	P
7440-28-0	Thallium	5.0	U		F
7440-66-6	Zinc	5.0	U		P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
EQPBK1

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-23-1

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23505 QC Report No.23505

Matrix (soil/water): SOIL
Level (low/high) : LOW
Percent Solids : 96.0

Lab Sample ID: 350501
Date Received: 04/06/95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.6	U		P
7440-38-2	Arsenic	38.4			F
7440-41-7	Beryllium	0.42	B		P
7440-43-9	Cadmium	0.10	U		F
7440-47-3	Chromium	23.8			P
7440-50-8	Copper	31.8			P
7439-92-1	Lead	8.0			F
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	25.9			P
7782-49-2	Selenium	0.49	U		F
7440-22-4	Silver	0.57	U		P
7440-28-0	Thallium	0.49	U		F
7440-66-6	Zinc	57.8			P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-23-1

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-22-1

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23505 QC Report No.23505

Matrix (soil/water): SOIL
Level (low/high) : LOW
Percent Solids : 95.0

Lab Sample ID: 350502
Date Received: 04/06/95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	12.6			F
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	0.12	B		F
7440-47-3	Chromium	14.6			P
7440-50-8	Copper	19.6			P
7439-92-1	Lead	7.2			F
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	12.6			P
7782-49-2	Selenium	0.50	U		F
7440-22-4	Silver	3.4			P
7440-28-0	Thallium	0.50	U		F
7440-66-6	Zinc	30.0			P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-22-1

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-22-1D

Lab Name: NYTEST_ENV_INC._____ Contract: 9521649___

Lab Code: NYTEST Login No.: 23505_ QC Report No.23505_

Matrix (soil/water): SOIL_
Level (low/high) : LOW
Percent Solids : _94.0

Lab Sample ID: 350503____
Date Received: 04/06/95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony_	3.9	U		P_
7440-38-2	Arsenic__	24.0			F_
7440-41-7	Beryllium	0.21	B		P_
7440-43-9	Cadmium__	0.14	B		F_
7440-47-3	Chromium_	19.2			P_
7440-50-8	Copper___	36.1			P_
7439-92-1	Lead_____	13.3			F_
7439-97-6	Mercury__	0.11	U		CV
7440-02-0	Nickel___	19.3			P_
7782-49-2	Selenium_	0.45	U		F_
7440-22-4	Silver___	0.61	U		P_
7440-28-0	Thallium_	0.45	U		F_
7440-66-6	Zinc_____	45.0			P_

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-22-1D

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-19-1

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23505 QC Report No.23505

Matrix (soil/water): SOIL
Level (low/high) : LOW
Percent Solids : 95.0

Lab Sample ID: 350504
Date Received: 04/06/95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.8	U		P
7440-38-2	Arsenic	42.7			F
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	0.44	B		F
7440-47-3	Chromium	18.2			P
7440-50-8	Copper	16.9			P
7439-92-1	Lead	8.9			F
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	26.4			P
7782-49-2	Selenium	0.48	U		F
7440-22-4	Silver	0.60	U		P
7440-28-0	Thallium	0.48	U		F
7440-66-6	Zinc	43.3			P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-19-1

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-19-2

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23505 QC Report No.23505

Matrix (soil/water): SOIL
Level (low/high) : LOW
Percent Solids : 94.0

Lab Sample ID: 350505
Date Received: 04/06/95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.8	U		P
7440-38-2	Arsenic	50.8			F
7440-41-7	Beryllium	0.70			P
7440-43-9	Cadmium	0.12	B		F
7440-47-3	Chromium	12.0			P
7440-50-8	Copper	18.5			P
7439-92-1	Lead	14.1			F
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	15.8			P
7782-49-2	Selenium	0.47	U		F
7440-22-4	Silver	0.60	U		P
7440-28-0	Thallium	0.47	U		F
7440-66-6	Zinc	47.2			P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-19-2

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

1-24-1

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23505 QC Report No.23505

Matrix (soil/water): SOIL
Level (low/high) : LOW
Percent Solids : 96.0

Lab Sample ID: 350506
Date Received: 04/06/95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.6	U		P
7440-38-2	Arsenic	9.3			F
7440-41-7	Beryllium	0.49			P
7440-43-9	Cadmium	0.12	B		F
7440-47-3	Chromium	24.8			P
7440-50-8	Copper	20.7			P
7439-92-1	Lead	16.6			F
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	11.5			P
7782-49-2	Selenium	0.47	U		F
7440-22-4	Silver	0.57	U		P
7440-28-0	Thallium	0.47	U		F
7440-66-6	Zinc	51.5			P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
1-24-1

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EQPBK2

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23505 QC Report No.23505

Matrix (soil/water): WATER
Level (low/high) : LOW
Percent Solids : 0.0

Lab Sample ID: 350507
Date Received: 04/06/95

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		F
7440-47-3	Chromium	5.0	U		P
7440-50-8	Copper	4.0	U		P
7439-92-1	Lead	3.0	U		F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	27.0	U		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	6.8	B		P
7440-28-0	Thallium	5.0	U		F
7440-66-6	Zinc	5.0	U		P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
EQPBK2

NYTEST ENVIRONMENTAL INC.

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FLDBK2

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23505 QC Report No.23505

Matrix (soil/water): WATER
Level (low/high) : LOW
Percent Solids : 0.0

Lab Sample ID: 350508
Date Received: 04/06/95

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	38.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		F
7440-47-3	Chromium	5.0	U		P
7440-50-8	Copper	4.0	U		P
7439-92-1	Lead	3.0	U		F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	27.0	U		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	6.8	B		P
7440-28-0	Thallium	5.0	U		F
7440-66-6	Zinc	5.0	U		P

CODES :
P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:
FLDBK2

NYTEST ENVIRONMENTAL INC.

ANALYTICAL AND METHOD BLANK SUMMARY

Lab Name: NYTEST_ENV_INC._____ Contract: 9521649___

Lab Code: NYTEST Login No.: 23505_ QC Report No.: 23505__

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony									3.800	U	P
Arsenic									0.500	U	F
Beryllium									0.100	U	P
Cadmium									0.100	U	F
Chromium									0.500	U	P
Copper									0.869	B	P
Lead									0.300	U	F
Mercury									0.100	U	CV
Nickel									2.700	U	P
Selenium									0.500	U	F
Silver									0.600	U	P
Thallium									0.500	U	F
Zinc									0.500	U	P

NR = Analyte Not Requested

NEI FORM 5 - (1/94)

NYTEST ENVIRONMENTAL INC.

ANALYTICAL AND METHOD BLANK SUMMARY

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23505 QC Report No.: 23505

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony									38.000	U	P
Arsenic									5.000	U	F
Beryllium									1.000	U	P
Cadmium									1.000	U	F
Chromium									5.000	U	P
Copper									9.930	B	P
Lead									3.000	U	F
Mercury									0.200	U	CV
Nickel									27.000	U	P
Selenium									5.000	U	F
Silver									6.000	U	P
Thallium									5.000	U	F
Zinc									5.000	U	P

NR = Analyte Not Requested

NEI FORM 5 - (1/94)

NYTEST ENVIRONMENTAL INC.

ANALYTICAL AND METHOD BLANK SUMMARY

Lab Name: NYTEST_ENV_INC._____ Contract: 9521649___

Lab Code: NYTEST Login No.: 23490_ QC Report No.: 23490__

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony									38.000	U	P
Arsenic									5.000	U	F
Beryllium									1.000	U	P
Cadmium									1.000	U	F
Chromium									5.000	U	P
Copper									4.000	U	P
Lead									3.000	U	F
Mercury									0.200	U	CV
Nickel									27.000	U	P
Selenium									5.000	U	F
Silver									-7.530	B	P
Thallium									5.000	U	F
Zinc									5.000	U	P

NR = Analyte Not Requested

NYTEST ENVIRONMENTAL INC.

ANALYTICAL AND METHOD BLANK SUMMARY

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23490 QC Report No.: 23490

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony									-5.578	B	P
Arsenic									0.500	U	F
Beryllium									0.100	U	P
Cadmium									0.100	U	F
Chromium									0.500	U	P
Copper									0.400	U	P
Lead									0.300	U	F
Mercury									0.100	U	CV
Nickel									2.700	U	P
Selenium									0.500	U	F
Silver									0.600	U	P
Thallium									0.500	U	F
Zinc									-0.596	B	P

NR = Analyte Not Requested

NEI FORM 5 - (1/94)

NYTEST ENVIRONMENTAL INC.

MATRIX SPIKE RECOVERY DATA SHEET

SAMPLE NO.

1-17-1MSD

ıb Name: NYTEST_ENV_INC._____ Contract: 9521649___

ıb Code: NYTEST Login No.: 23490_ QC Report No. : 23490_

Matrix (soil/water): SOIL__ Level (low/med): LOW___

Solids for Sample: _97.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
ntimony_	75-125_	27.0040_	_	5.0776	B	44.82	48.9	N	P_
rsenic__		31.6523_	_	32.8397	_	3.72	-31.9	_	F_
eryllium	75-125_	4.9888_	_	0.2062	B	4.48	106.8	_	P_
admium__	75-125_	0.5294_	_	0.0937	U	0.46	115.1	_	F_
hromium_	75-125_	35.6584_	_	19.9972	_	17.93	87.3	_	P_
opper___	75-125_	53.8691_	_	20.0418	_	22.41	150.9	N	P_
Lead____	75-125_	20.3399_	_	5.2484	_	1.86	811.4	N	F_
ercury__	75-125_	0.7036_	_	0.1304	_	0.52	110.2	_	CV
ickel___	75-125_	61.4415_	_	26.7261	_	44.82	77.5	_	P_
elenium_	75-125_	0.6037_	_	0.4686	U	0.93	64.9	N	F_
ilver___	75-125_	1.5769_	_	0.5573	U	4.48	35.2	N	P_
hallium_	75-125_	3.6965_	_	0.4686	U	4.64	79.7	_	F_
inc_____	75-125_	92.0350_	_	37.6140	_	44.82	121.4	_	P_

mments:
1-17-1MSD

NR : Analyte Not Required

NEI FORM 7 - (1/94)

NYTEST ENVIRONMENTAL INC.

DUPLICATES

SAMPLE NO.

1-17-1MS

Lab Name: NYTEST_ENV_INC. Contract: 9521649

Lab Code: NYTEST Login No.: 23490 QC Report No. : 23490

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 97.0 % Solids for Duplicate: 94.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Antimony		5.0776	B	3.6958	U	200.0		P
Arsenic		32.8397		63.0852		63.1	*	F
Beryllium		0.2062	B	0.3793	B	59.1		P
Cadmium		0.0937	U	0.0946	U			F
Chromium		19.9972		27.7942		32.6	*	P
Copper		20.0418		35.3560		55.3	*	P
Lead		5.2484		8.5122		47.4	*	F
Mercury	0.1	0.1304		0.1330		2.0		CV
Nickel		26.7261		30.0019		11.5		P
Selenium		0.4686	U	0.4729	U			F
Silver		0.5573	U	0.5835	U			P
Thallium		0.4686	U	0.4729	U			F
Zinc		37.6140		45.2529		18.4		P

NR : Analyte Not Requested

NEI FORM 9 (1/94)